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Water Resources Data for Maine, Water Year 1972 Part 1. Surface Water Records. Part 2. Water Quality Records. Part 3. Ground Water Records

(U.S.) Geological Survey, Boston, MA. Water Resources Div.

1973

PB 289318

1972

Water Resources Data for Maine

Water Year 1972

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records

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MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-72-1

Prepared in cooperation with the Maine Public Utilities
Commission and with other agencies

CALENDAR FOR WATER YEAR 1972

OCTOBER 1971

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER 1971

S	M	T	W	T	F	S
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28	29	30				

DECEMBER 1971

S	M	T	W	T	F	S
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26	27	28	29	30	31	

JANUARY 1972

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23	24	25	26	27	28	29
30	31					

FEBRUARY 1972

S	M	T	W	T	F	S
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29				

MARCH 1972

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL 1972

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY 1972

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE 1972

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

JULY 1972

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

AUGUST 1972

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

SEPTEMBER 1972

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

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Water resources data for the 1972 water year for Maine consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells and springs. This report contains discharge records for 61 gaging stations; stage and contents for 19 lakes and reservoirs; water quality for 11 gaging stations, and water for quality 12 observation wells. Also included are 23 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Maine.

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Water Resources Data for Maine

Water Year 1972

Part 1. Surface Water Records
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UNITED STATES
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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ME-72-1

Prepared in cooperation with the Maine Public Utilities
Commission and with other agencies

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Maine Public Utilities Commission
Maine Department of Transportation
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U.S. Environmental Protection Agency

Copies of this report may be obtained from
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Capitol Shopping Center
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1973

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WATER RESOURCES DATA FOR MAINE, 1972

Part 1. Surface-Water Records
Part 2. Water-Quality Records
Part 3. Ground-Water Records

INTRODUCTION

Water resources data for the 1972 water year for Maine including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, records of water-quality data on the chemical and physical characteristics of surface- and ground-water, and records of ground-water levels in index wells are given in this report. Records for a few pertinent gaging stations in bordering States and Provinces are also included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of G. S. Hayes, District Chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Maine.

Through September 30, 1960, the records of discharge and stage of streams and contents and stage of lakes or reservoirs were published in an annual series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States."

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The streamflow records for 1961-65 also are published in a Geological Survey water-supply paper series entitled, "Surface Water Supply of the United States 1961-65," and those for 1966-70 will be published in a similar series.

The Geological Survey has published records of chemical quality, temperature, and suspended sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have also been released on a State-boundary basis in conjunction with streamflow records or in a separate volume.

Through December 31, 1965, the Geological Survey has published ground-water records which contain water level data in an annual series of water-supply papers entitled"Water Levels and Artesian Pressures in Observation Wells in the United States." Since 1955 this series has been entitled "Ground-Water Levels in the United States." The calendar years 1956 through 1960 span a transition period wherein the water-supply papers are converted from presenting 1 year data to 5 years of data. Water-Supply Paper 1537 contains records of water levels in Maine for calendar years 1956-57, Water-Supply Paper 1782 for calendar years 1958-62, and Water-Supply Paper 1977 for calendar years 1963-67. Subsequent water-supply papers containing records for Maine will be issued for 5-year intervals. Beginning with the 1968 water year, ground-water data for Maine have also been released on a State-boundary basis in conjunction with streamflow and water-quality records.

COOPERATION

The U.S. Geological Survey and organizations of the State of Maine have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality and ground-water records since 1957. Organizations that supplied data are acknowledged in station descriptions or in footnotes to tables. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Maine Public Utilities Commission, J. G. Feehan, chairman
Maine Department of Transportation, D. H. Stevens, commissioner

Assistance in the form of funds or services was given by the U.S. Department of State in collecting records published herein for 5 gaging stations and 2 water-quality stations; and U.S. Environmental Protection Agency, for 4 water-quality stations.

The following organizations aided in collecting records:

Bangor Hydro-Electric Company
Kennebec Water Power Company
Georgia-Pacific Corporation
Union Water Power Company

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States) and records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated herein as "International gaging stations."

DEFINITION OF TERMS

The terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows:

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

> Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.
>
> Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO3$).

Land surface datum (lsd) is a precise datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is a permanent point from which the distance to the water surface in a well is measured to obtain the water level.

Micrograms per liter (ug/l, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per liter is equivalent to one milligram per liter. See below.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations are determined in the laboratory as parts per million (ppm) and are converted to mg/l by using the factors in table 2, page 5.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25 °C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2})*......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})*....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*......	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in parts per million to milligrams per liter* (All values calculated to three significant figures)

Range of concentration (ppm)	Multiply by	Range of concentration (ppm)	Multiply by
0 - 15,900	1.00	322,000 - 341,000	1.26
16,000 - 46,800	1.02	342,000 - 361,000	1.28
46,900 - 76,500	1.04	362,000 - 380,000	1.30
76,600 - 105,000	1.06	381,000 - 399,000	1.32
106,000 - 133,000	1.08	400,000 - 416,000	1.34
134,000 - 159,000	1.10	417,000 - 434,000	1.36
160,000 - 185,000	1.12	435,000 - 451,000	1.38
186,000 - 210,000	1.14	452,000 - 467,000	1.40
211,000 - 233,000	1.16	468,000 - 483,000	1.42
234,000 - 256,000	1.18	484,000 - 498,000	1.44
257,000 - 279,000	1.20	499,000 - 514,000	1.46
280,000 - 300,000	1.22	515,000 - 528,000	1.48
301,000 - 321,000	1.24	529,000 - 542,000	1.50

*Based on water density of 1.000 g/ml and sediment density of 2.65 g/cc.

WRD is used as an abbreviation for "Water Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimes will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Pesticides program is a network of regularly sampled water-quality stations where additional samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flows) or more frequently to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging station or partial-record station. Gaps are left in the numbers to allow for new stations that may be established;

hence the numbers are not consecutive. The complete 8-digit number for each station, such as 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500". In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

WELL NUMBERS

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The first six digits denote the degrees, minutes, and seconds of latitude followed by a letter denoting north or south. Seven digits following the letter denote degrees, minutes, and seconds of longitude. The last two digits are a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

A local well numbering system is also used in this report. All wells which have been inventoried are numbered consecutively within each county.

PART 1. SURFACE WATER RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct reading of a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the gage height to the rating table gives the discharge. The daily mean discharge is computed from gage heights, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. Information required for determining the slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage, at these stations the rate of change in stage is used as a factor in determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents are computed. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations or streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of contents is given. Tables of daily gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1972 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations is that determined and used by the Corps of Engineers and other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the streamflow records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily reading of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs the elevation is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures; it is the total cubic feet per second per day for the month. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the basin is usually less than 20 inches.

For reservoir stations the monthly summary gives the contents at the end of the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month and the change in contents during the month.

In the yearly summary below the monthly summary, the figures of maximum are the maximum daily discharges for the calendar and water years; likewise, the minimum in this summary are the minimum daily discharges.

For the reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE," certain periods are indicated for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables explain the use of new capacity tables or for other special conditions.

Accuracy of Data

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good", within 10 percent; and "fair", within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figures. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumptive use, regulation, evaporation or other factors. For these stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects.

Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Maine for the period October 1960 to September 1965 are in Water-Supply Paper 1901 and for the period October 1965 to September 1970 in Water-Supply Paper 2101 (now in press).

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Maine are compiled in Water-Supply Papers 1301 through September 1950, and in 1721 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at miscellaneous sites.

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

PART 2. WATER QUALITY RECORDS

Collection and Examination of Data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage areas, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water stations, no descriptive statements are given; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

Data on the quality of surface water were collected from designated sampling sites (map on page 18) at predetermined intervals such as once daily, weekly, monthly or less frequently. Data on the quality of ground water were collected once during the year at 3 index wells whose locations are shown in Figure 2 and 12 other wells in the eastern section of the State.

Water-quality information is presented for chemical quality, microbiological, fluvial sediment and water temperatures. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperature are given in degrees Celsius (centigrade, °C). In waters with density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Fahrenheit to degrees Celsius, see table on page 14.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 4).

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homegeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

Table 3.--Degrees Fahrenheit (°F) to degrees Celsius (°C)*
(Temperature reported to nearest 0.5°C)

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
32	0.0	50	10.0	68	20.0	86	30.0	104	40.0
33	.5	51	10.5	69	20.5	87	30.5	105	40.5
34	1.0	52	11.0	70	21.0	88	31.0	106	41.0
35	1.5	53	11.5	71	21.5	89	31.5	107	41.5
36	2.0	54	12.0	72	22.0	90	32.0	108	42.0
37	3.0	55	13.0	73	23.0	91	33.0	109	43.0
38	3.5	56	13.5	74	23.5	92	33.5	110	43.5
39	4.0	57	14.0	75	24.0	93	34.0	111	44.0
40	4.5	58	14.5	76	24.5	94	34.5	112	44.5
41	5.0	59	15.0	77	25.0	95	35.0	113	45.0
42	5.5	60	15.5	78	25.5	96	35.5	114	45.5
43	6.0	61	16.0	79	26.0	97	36.0	115	46.0
44	6.5	62	16.5	80	26.5	98	36.5	116	46.5
45	7.0	63	17.0	81	27.0	99	37.0	117	47.0
46	8.0	64	18.0	82	28.0	100	38.0	118	48.0
47	8.5	65	18.5	83	28.5	101	38.5	119	48.5
48	9.0	66	19.0	84	29.0	102	39.0	120	49.0
49	9.5	67	19.5	85	29.5	103	39.5	121	49.5

*°C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Ground-water quality does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately define ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Maine are listed below.

Water year	WSP No.	Water year	WSP No.
1953	1290	1962	1941
1954	1350	1963	1947
1955	1400	1964	1954
1957	1520	1965	1961
1958	1571	1966	1991
1959	1641	1967	2011
1960	1741	1968	2091
1961	1881		

PART 3. GROUND-WATER RECORDS

Collection and Reporting of Data

Water level measurements are reported in feet below land surface datum and to as many significant figures as can be justified by local conditions. Measurements of water level in wells equipped with recording gages are given for every fifth day and the end of each month. Locations of the index wells are shown on map on page 18 .

HYDROLOGIC CONDITIONS

Runoff for water year 1972 was slightly below normal in the southwestern area and about 10% above normal in the central and northern sections. Mean monthly runoff was excessive (in the upper quartile of recorded monthly runoff) at nearly all gaging stations for May and August and at many of them during the entire May through September period. However, mean monthly was deficient (in lower quartile) at most stations for the November through January period. Annual runoff for water year 1972 was generally about 5% higher than for water year 1971.

Average water content of the snow pack on March 1 ranged from 4 to 10 inches in the various river basins of the State. It was above normal in all basins and ranged from 107% in the St. Croix River basin to 151% in the lower Penobscot River basin.

Ground-water levels fluctuated seasonally reaching maximum level in April and minimum level in either October or February. Water levels generally were below average for the first 5 months of the year and above for the remainder of the time.

Water in storage, which was 75% of average amount at the beginning of the year decreased seasonally but was only 55% of average at the end of February. However, while the spring runoff was delayed it was heavy and at the end of June the quantity of water in storage was about 115% of normal and at the end of the year was 125%.

Figure 1, page 17, for which records at three long-term representative gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1972 water year with median discharges for the 1931-60 period.

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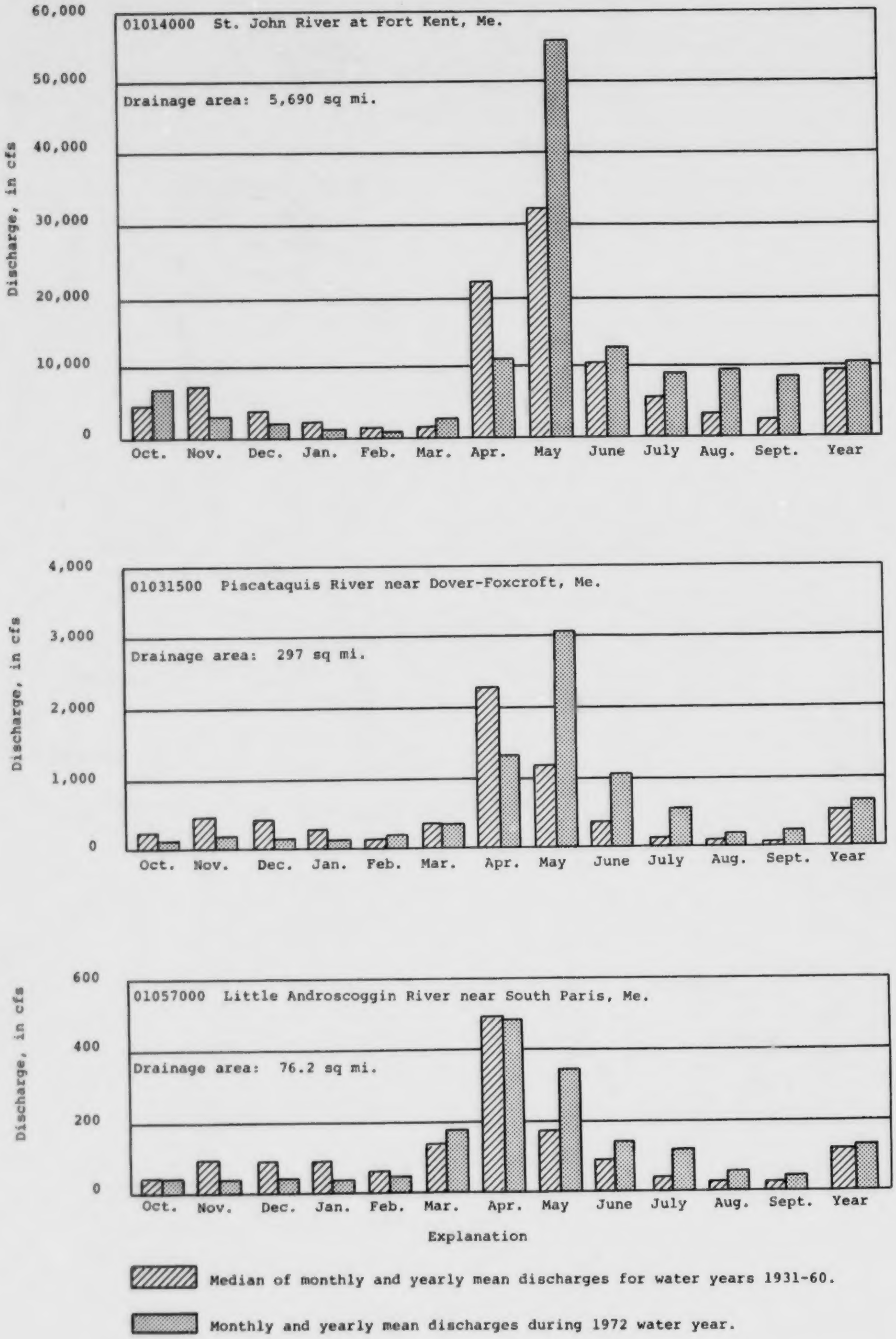
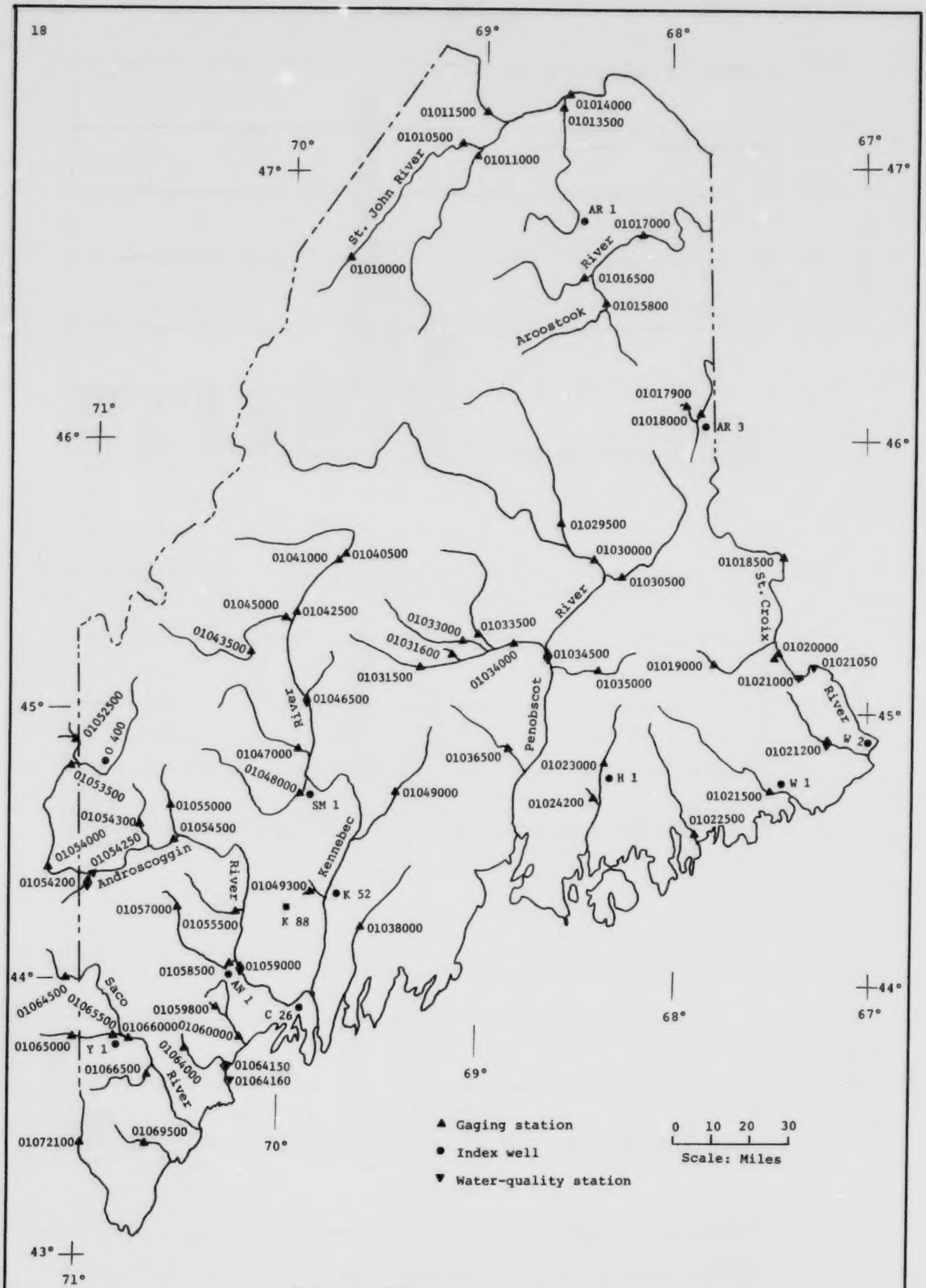


Figure 1.--Comparison of runoff at three long-term index gaging stations during 1972 water year with median runoff for period 1931-60.


69°
68°
70°
47°
67°
47°
71°
46°
46°
45°
45°
44°
44°
67°
68°
69°
70°
43°
71°
St. John River
Aroostook
River
St. Croix
River
Penobscot
River
Kennebec
River
Androscoggin
River
Saco
River
01011500
01014000
01013500
01010500
01011000
AR 1
01017000
01010000
01016500
01015800
01017900
01018000
AR 3
01029500
01030000
01030500
01018500
01041000
01040500
01045000
01042500
01043500
01033000
01033500
01031600
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01019000
01020000
01021050
01021000
01046500
01052500
O 400
01047000
01048000
SM 1
01036500
01023000
H 1
01021200
W 2
01021500
W 1
01024200
01022500
01049000
01053500
01055000
01054300
01054500
01054000
01054250
01054200
01049300
K 88
K 52
01057000
01055500
01038000
01058500
01059000
AN 1
01064500
01065500
01066000
01060000
01059800
C 26
01065000
Y 1
01064000
01064150
01064160
01066500
01072100
01069500
▲ Gaging station
● Index well
▼ Water-quality station
0 10 20 30
Scale: Miles

Figure 2.--Location of stations

PART 1. SURFACE WATER RECORDS

ST. JOHN RIVER BASIN

01010000 St. John River at Ninemile Bridge, Maine

LOCATION.--Lat 46°42'00", long 69°42'59", Aroostook County, on right bank in T. 12, R. 15, 0.1 mile downstream from Ninemile Brook, 0.4 mile downstream from site of Ninemile Bridge, and 11 miles northwest of Clayton Lake Post Office.

DRAINAGE AREA.--1,290 sq mi, approximately.

PERIOD OF RECORD.--October 1950 to current year. October 1950 monthly discharge only, published in WSP 1721.

GAGE.--Water-stage recorder. Datum of gage is 931.26 ft above mean sea level.

AVERAGE DISCHARGE.--22 years, 2,188 cfs (23.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 23,400 cfs May 9 (gage height, 8.96 ft); minimum daily, 250 cfs Mar. 14, 15.

Period of record: Maximum discharge, 34,200 cfs Apr. 25, 1958 (gage height, 10.97 ft) from rating curve extended above 16,000 cfs; minimum, 59 cfs Sept. 5, 1953; minimum gage height, 0.25 ft Sept. 5, 1953, Sept. 11-12, 1960.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	935	855	450	360	290	260	1,650	6,300	2,740	1,820	1,450	1,230
2	828	802	450	355	290	260	1,600	7,900	3,810	1,580	1,140	962
3	750	766	455	350	285	260	1,550	10,000	4,620	1,640	1,010	779
4	671	802	460	340	280	260	1,500	12,000	4,190	4,840	1,870	709
5	613	784	465	350	280	260	1,450	14,800	3,440	8,060	2,960	732
6	586	734	470	360	275	260	1,400	17,800	2,900	6,830	2,450	777
7	593	686	480	390	270	260	1,380	20,900	2,740	4,780	1,890	699
8	1,130	710	490	460	270	255	1,360	23,100	2,920	3,310	4,530	638
9	1,040	613	515	510	270	255	1,350	22,200	2,940	2,830	10,800	627
10	976	593	530	500	265	255	1,340	20,400	4,120	2,760	11,800	623
11	2,030	664	560	470	265	255	1,330	18,400	4,470	3,680	10,600	562
12	4,390	573	600	450	260	255	1,330	16,000	3,650	4,440	7,820	491
13	4,620	467	640	425	260	255	1,340	14,200	2,810	3,440	5,230	441
14	3,840	425	710	405	265	250	1,350	15,200	2,210	2,600	3,900	409
15	3,720	350	770	395	285	250	1,360	19,200	1,840	2,550	2,890	378
16	3,480	375	800	380	300	260	1,380	22,000	2,040	2,180	2,220	367
17	2,900	400	720	370	295	265	1,450	21,800	3,420	4,170	1,790	344
18	2,390	360	660	360	290	280	1,560	20,600	3,270	6,030	1,530	318
19	2,030	380	610	350	290	310	1,680	19,500	2,470	5,080	1,600	341
20	1,770	425	580	345	290	375	1,800	17,800	1,890	3,880	1,800	425
21	1,560	410	540	340	295	460	2,000	16,900	1,510	3,010	1,590	480
22	1,410	510	510	330	275	600	2,200	15,000	1,260	2,500	1,350	475
23	1,290	640	475	325	270	850	2,500	13,000	1,220	2,050	1,980	434
24	1,180	570	460	320	265	1,250	2,850	11,000	1,450	1,630	2,980	376
25	1,070	520	445	315	265	1,900	3,300	8,920	1,710	1,300	2,500	333
26	1,140	490	430	310	260	2,150	3,650	7,020	3,160	1,130	2,010	327
27	1,360	560	420	310	260	2,100	3,650	5,480	4,700	1,650	1,790	473
28	1,320	640	405	305	260	2,050	3,600	4,490	4,050	2,200	1,610	832
29	1,200	580	390	300	260	1,950	4,000	3,880	3,070	2,200	2,120	803
30	1,080	450	380	300	------	1,850	4,900	3,310	2,330	2,210	2,030	744
31	955	------	370	295	------	1,750	------	2,830	------	1,810	1,590	------
TOTAL	52,857	17,134	16,240	11,375	7,975	22,250	61,810	431,830	86,950	98,190	100,830	17,129
MEAN	1,705	570	524	367	275	718	2,060	13,930	2,898	3,167	3,253	571
MAX	4,620	855	900	510	300	2,150	4,900	23,100	4,700	8,060	11,800	1,230
MIN	586	350	370	295	260	250	1,330	2,830	1,220	1,130	1,010	318
CFSM	1.32	.44	.41	.28	.21	.56	1.60	10.8	2.25	2.46	2.52	.44
IN.	1.52	.49	.47	.33	.23	.64	1.78	12.45	2.51	2.83	2.91	.49

CAL YR 1971 TOTAL 793,409 MEAN 2,174 MAX 23,600 MIN 150 CFSM 1.69 IN 22.88
WTR YR 1972 TOTAL 924,550 MEAN 2,526 MAX 23,100 MIN 250 CFSM 1.96 IN 26.66

01010500 St. John River at Dickey, Maine

LOCATION.--Lat 47°06'44", long 69°05'25", Aroostook County, on right bank at downstream side of highway bridge at Dickey, 0.4 mile downstream from Little Black River, and 2.8 miles upstream from Allagash River.

DRAINAGE AREA.--2,700 sq mi, approximately.

PERIOD OF RECORD.--July to November 1910 and April to November 1911 (published as "near Dickey"), September 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.66 ft above mean sea level (levels by Corps of Engineers). Prior to December 1911, nonrecording gage at site 2,300 ft downstream at different datum. September 1946 to April 1962, water-stage recorder at site 1,300 ft downstream at same datum.

AVERAGE DISCHARGE.--26 years (1946-72), 4,505 cfs (22.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 47,300 cfs May 17 (gage height, 14.10 ft); minimum, 450 cfs Nov. 15.

Period of record: Maximum discharge, 75,400 cfs May 10, 1969 (gage height, 17.35 ft); maximum gage height, 23.44 ft Apr. 22, 1970 (backwater from ice); minimum discharge, 129 cfs Sept. 17, 1948.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for water year 1972 are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,200	1,680	720	780	570	550	3,100	19,800	6,900	3,120	2,610	3,200
2	1,930	1,530	730	765	565	550	3,020	25,000	10,400	2,580	2,160	2,560
3	1,750	1,500	750	750	555	545	2,980	27,700	13,000	2,280	1,830	2,100
4	1,550	1,500	760	740	550	545	2,910	29,000	11,600	3,120	1,870	3,140
5	1,470	1,510	780	750	540	545	2,900	33,500	8,740	9,840	3,120	4,870
6	1,400	1,460	800	770	535	540	2,900	36,800	6,810	10,000	4,020	3,830
7	1,390	1,360	820	790	530	540	2,890	39,500	5,560	7,520	3,170	3,070
8	2,220	1,360	850	820	525	540	2,880	45,500	5,140	5,350	3,140	2,650
9	2,080	1,340	880	850	525	535	2,870	44,400	5,700	3,940	11,900	2,650
10	1,900	1,140	920	880	520	535	2,850	40,100	7,590	3,850	16,800	2,670
11	4,000	1,000	990	850	520	535	2,820	35,800	9,200	3,940	18,200	2,470
12	7,900	1,060	1,060	840	520	535	2,840	31,000	8,050	6,050	14,000	2,080
13	8,400	1,000	1,130	820	520	530	2,860	26,500	6,260	5,700	10,000	1,790
14	7,240	759	1,200	800	525	530	2,900	27,000	4,750	4,540	7,480	1,620
15	6,440	523	1,270	780	550	530	3,000	32,300	3,830	3,500	5,740	1,500
16	6,540	636	1,330	760	600	535	3,100	45,000	3,370	3,120	4,330	1,360
17	5,630	746	1,300	750	620	555	3,300	46,700	3,670	3,750	3,420	1,230
18	4,570	733	1,220	730	620	580	3,600	44,000	4,930	7,700	2,880	1,140
19	3,750	746	1,170	715	610	730	4,000	43,000	4,300	8,200	3,050	1,170
20	3,220	811	1,120	700	605	1,000	4,600	39,900	3,370	6,750	3,600	1,640
21	2,810	798	1,070	690	590	1,320	5,200	36,600	2,650	5,170	3,420	1,810
22	2,520	811	1,030	670	585	1,750	5,800	33,000	2,320	4,100	2,930	1,790
23	2,300	1,130	990	660	580	2,300	6,700	27,400	2,220	3,370	3,020	1,500
24	2,100	1,080	960	650	575	2,950	7,900	22,400	2,320	2,650	5,420	1,460
25	1,990	860	940	640	565	3,450	9,200	18,000	2,630	2,220	6,220	1,120
26	2,000	870	905	630	560	3,800	10,500	14,400	3,420	1,830	6,120	1,090
27	2,060	930	890	620	560	3,790	10,700	11,600	6,400	1,720	5,420	1,240
28	2,280	1,100	860	610	560	3,700	10,600	9,720	7,100	2,180	4,360	1,530
29	2,240	980	830	600	555	3,550	10,800	8,560	5,630	3,000	4,330	1,870
30	2,040	710	810	590	------	3,300	12,000	7,310	4,160	3,370	4,810	2,060
31	1,870	------	790	580	------	3,200	------	6,120	------	3,240	4,080	------
TOTAL	99,770	31,663	29,875	22,580	16,235	44,585	151,720	907,610	172,020	137,700	173,450	62,200
MEAN	3,218	1,055	964	728	560	1,438	5,057	29,280	5,734	4,442	5,595	2,073
MAX	8,400	1,680	1,330	880	620	3,800	12,000	46,700	13,000	10,000	18,200	4,870
MIN	1,390	523	720	580	520	530	2,820	6,120	2,220	1,720	1,830	1,080
CFSM	1.19	.39	.36	.27	.21	.53	1.87	10.8	2.12	1.65	2.07	.77
IN.	1.37	.44	.41	.31	.22	.61	2.09	12.50	2.37	1.90	2.39	.86

CAL YR 1971 TOTAL 1,587,247 MEAN 4,349 MAX 50,400 MIN 370 CFSM 1.61 IN 21.87
WTR YR 1972 TOTAL 1,849,408 MEAN 5,053 MAX 46,700 MIN 520 CFSM 1.87 IN 25.48

PEAK DISCHARGE (BASE, 27,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-08	1800	14.03	46,800	5-17	0030	14.10	47,300

01011000 Allagash River near Allagash, Maine

LOCATION.--Lat 47°04'14", long 69°04'51", Aroostook County, on left bank 3.0 miles upstream from mouth and village of Allagash.

DRAINAGE AREA.--1,250 sq mi, approximately (not including 249 sq mi drained by Chamberlain Lake through Telos Canal).

PERIOD OF RECORD.--July 1910 to November 1910, May to November 1911, September 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 604.6 ft above mean sea level. Prior to December 1911, nonrecording gage at site 3.0 miles downstream at different datum.

AVERAGE DISCHARGE.--41 years (1931-72), 1,865 cfs (20.26 inches per year).

EXTREMES.--Current year: Maximum discharge, 15,900 cfs May 17 (gage height, 9.32 ft); minimum daily, 140 cfs Mar. 9-16.

Period of record: Maximum discharge, 28,800 cfs May 17, 1961 (gage height, 12.21 ft); maximum gage height, 14.16 ft Apr. 23, 1960 (backwater from ice); minimum discharge, 87 cfs Sept. 11, 1960.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation for recreational purposes since May 1969 by Churchill Lake (usable capacity, about 3.4 billion cu ft), 58 miles upstream. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1231: 1911.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,040	933	330	285	190	150	1,470	4,250	3,290	1,190	1,920	1,640
2	1,770	879	330	280	190	150	1,480	5,400	3,960	1,130	1,750	1,500
3	1,600	801	335	275	185	145	1,490	6,990	3,990	1,110	1,640	1,380
4	1,560	739	340	270	180	145	1,500	8,060	3,490	2,140	1,800	2,990
5	1,560	670	345	260	175	145	1,500	10,200	3,130	2,960	1,850	5,820
6	1,490	615	350	260	170	145	1,500	11,600	2,810	2,710	1,750	4,570
7	1,550	593	355	270	170	145	1,480	13,000	2,650	2,340	1,620	3,720
8	1,630	642	360	280	165	145	1,460	13,800	2,590	1,990	2,440	3,290
9	1,600	615	370	295	160	140	1,410	13,100	2,660	1,750	3,620	3,120
10	1,560	518	385	305	160	140	1,400	12,400	2,830	1,690	4,450	2,800
11	2,170	542	390	315	155	140	1,400	11,500	2,770	2,000	4,590	2,410
12	2,930	472	400	330	155	140	1,900	10,600	2,600	2,070	4,200	2,180
13	2,740	440	405	325	150	140	2,120	9,800	2,370	1,850	3,680	1,950
14	2,530	384	415	315	145	140	2,240	10,100	2,140	1,890	3,400	1,810
15	2,460	405	430	305	160	140	2,300	12,700	2,010	1,940	3,070	1,720
16	2,170	495	450	295	170	140	2,350	15,200	2,120	1,910	2,630	1,600
17	1,810	449	470	295	180	150	2,400	15,700	2,230	2,930	2,240	1,480
18	1,590	422	470	275	175	170	2,500	15,500	2,040	3,380	2,010	1,440
19	1,440	412	455	270	170	215	2,560	15,500	1,870	3,130	2,160	1,640
20	1,320	459	435	260	165	325	2,650	14,400	1,710	2,850	2,040	1,700
21	1,260	431	415	250	160	475	2,800	13,300	1,570	2,560	1,800	1,570
22	1,200	400	400	245	160	700	2,900	12,100	1,470	2,320	1,700	1,500
23	1,160	435	385	240	155	980	3,080	10,500	1,440	2,030	2,260	1,440
24	1,100	500	370	235	150	1,020	3,250	9,150	1,480	1,790	3,070	1,370
25	1,060	470	360	230	150	1,150	3,600	7,900	1,470	1,630	2,800	1,350
26	1,160	400	350	225	150	1,260	3,580	6,630	1,430	1,590	2,600	1,390
27	1,240	380	330	220	150	1,350	3,520	5,580	1,410	1,830	2,320	1,460
28	1,180	370	320	215	150	1,400	3,400	4,740	1,400	1,760	2,160	1,470
29	1,120	450	310	210	150	1,430	3,380	3,980	1,360	1,940	2,220	1,410
30	1,050	400	300	205	------	1,460	3,550	3,260	1,280	2,140	2,010	1,530
31	975	------	295	200	------	1,460	------	2,870	------	2,110	1,820	------
TOTAL	50,025	15,720	11,655	8,230	4,745	15,735	70,170	309,710	67,570	64,660	77,620	63,250
MEAN	1,614	524	376	265	164	508	2,339	9,991	2,252	2,086	2,504	2,108
MAX	2,930	933	470	330	190	1,460	3,600	15,700	3,990	3,390	4,590	5,820
MIN	975	370	295	200	145	140	1,400	2,870	1,280	1,110	1,620	1,350
CFSM	1.29	.42	.30	.21	.13	.41	1.87	7.99	1.80	1.67	2.00	1.69
IN.	1.49	.47	.35	.24	.14	.47	2.09	9.22	2.01	1.92	2.31	1.88

CAL YR 1971 TOTAL 638,103 MEAN 1,749 MAX 15,600 MIN 295 CFSM 1.40 IN 18.99
WTR YR 1972 TOTAL 759,090 MEAN 2,074 MAX 15,700 MIN 140 CFSM 1.66 IN 22.59

ST. JOHN RIVER BASIN

01011500 St. Francis River at outlet of Glasier Lake, near Connors, New Brunswick

(International gaging station)

LOCATION.--Lat 47°12'25", long 68°57'25", Madawaska County, on left bank at outlet of Glasier Lake, 4.0 miles upstream from mouth and 6.5 miles west of Connors.

DRAINAGE AREA.--520 sq mi.

PERIOD OF RECORD.--October 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 550 ft (from International Boundary Map).

AVERAGE DISCHARGE.--21 years, 852 cfs (22.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,930 cfs May 19 (gage height, 10.83 ft); minimum, 131 cfs Mar. 14 (gage height, 2.34 ft).
Period of record: Maximum discharge, 13,000 cfs May 12, 1969 (gage height, 14.01 ft); minimum, 68 cfs Sept. 11, 12, 1960, Oct. 3, 1968.
CORRECTIONS.--The maximum discharge for water year 1952 occurred on May 2, 1952; the date previously published in WSP 1231 and 1721 was in error.

REMARKS.--Records excellent.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

REVISIONS.--WSP 1621: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	554	478	285	264	181	153	603	1,760	2,070	663	321	294
2	527	465	272	258	176	165	605	2,210	2,410	622	310	285
3	496	455	262	260	174	167	610	2,770	2,980	586	293	274
4	464	441	261	253	171	158	510	3,330	3,350	588	285	340
5	446	433	252	245	170	154	623	3,010	3,260	552	267	452
6	428	412	246	239	168	149	626	4,150	2,890	528	254	595
7	426	409	249	231	165	149	623	4,590	2,530	497	244	746
8	420	415	247	227	162	149	619	5,180	2,210	470	258	826
9	413	408	245	220	160	147	610	5,750	2,010	446	267	849
10	421	395	251	216	159	143	593	6,020	1,860	431	288	824
11	473	387	254	213	158	141	588	5,900	1,690	427	292	774
12	536	383	259	210	154	140	578	5,610	1,550	431	287	721
13	645	369	264	207	151	140	575	5,290	1,420	445	289	667
14	753	355	270	208	153	135	591	5,150	1,290	460	283	627
15	825	336	279	206	158	135	592	5,430	1,190	451	272	574
16	844	325	306	208	156	135	609	6,330	1,090	472	257	531
17	830	306	316	204	155	145	632	7,340	1,030	502	248	494
18	792	298	319	202	151	177	687	7,810	956	557	244	466
19	757	286	315	204	150	188	766	7,890	891	634	261	455
20	715	284	314	201	166	207	863	7,740	814	664	262	439
21	675	281	312	200	164	238	973	7,420	749	660	266	422
22	644	280	310	199	163	296	1,070	6,950	707	627	273	409
23	616	277	299	203	158	390	1,190	6,400	685	578	282	390
24	585	266	294	203	156	453	1,310	5,690	684	528	283	369
25	566	271	295	206	155	490	1,430	4,910	698	491	287	355
26	556	295	285	208	155	529	1,520	4,170	727	453	321	343
27	543	283	283	200	153	556	1,570	3,540	752	421	308	338
28	532	277	282	196	152	584	1,580	3,060	748	389	303	324
29	526	265	275	192	152	592	1,560	2,680	732	373	306	321
30	508	277	270	185	------	597	1,550	2,390	706	360	304	344
31	492	------	265	184	------	600	------	2,150	------	335	300	------
TOTAL	18,308	10,412	8,636	6,652	4,646	8,402	26,356	153,410	44,669	15,641	8,715	14,848
MEAN	581	347	279	215	160	271	879	4,949	1,489	505	281	495
MAX	844	478	319	264	181	600	1,580	7,890	3,350	664	321	849
MIN	413	265	245	184	150	135	575	1,760	684	335	244	274
CFSM	1.12	.67	.54	.41	.31	.52	1.69	9.52	2.86	.97	.54	.95
IN.	1.29	.74	.62	.48	.33	.60	1.89	10.97	3.20	1.12	.62	1.06

CAL YR 1971 TOTAL 281,975 MEAN 773 MAX 7,220 MIN 116 CFSM 1.49 IN 20.17
WTR YR 1972 TOTAL 320,395 MEAN 875 MAX 7,890 MIN 135 CFSM 1.68 IN 22.92

01013500 Fish River near Fort Kent, Maine

LOCATION.--Lat 47°14'14", long 68°34'56", Aroostook County, on right bank 300 ft upstream from highway bridge at Fort Kent Mills, 2 miles upstream from mouth, and 2 miles south of Fort Kent.

DRAINAGE AREA.--871 sq mi.

PERIOD OF RECORD.--July 1903 to December 1908 and May to November 1911 (published as "at Wallagrass"), September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 511.38 ft above mean sea level. July 1903 to December 1908 and May to November 1911 nonrecording gage at site 10 miles upstream at different datum.

AVERAGE DISCHARGE.--48 years (1903-8, 1929-72, 1,363 cfs (21.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,400 cfs May 19 (gage height, 9.74 ft); minimum daily, 230 cfs Mar. 13-15.

Period of record: Maximum discharge, 13,400 cfs May 16, 1961 (gage height, 11.49 ft); minimum, 34 cfs Aug. 29, 1968.

REMARKS.--Records excellent except those for winter period, which are fair. Large lake area above station has not yet been developed for storage. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	731	855	460	440	320	245	910	3,300	4,220	1,350	995	1,390
2	700	830	450	435	310	240	925	3,700	4,290	1,270	930	1,330
3	662	813	445	430	305	240	945	4,150	4,170	1,200	900	1,260
4	644	789	435	420	300	240	972	4,750	4,010	1,430	840	2,400
5	635	761	430	415	300	240	1,010	5,600	3,930	1,450	792	3,460
6	599	743	425	410	295	240	1,020	6,500	3,820	1,440	753	3,800
7	641	739	420	405	290	240	1,030	7,500	3,670	1,410	721	3,900
8	615	735	420	400	280	240	1,030	8,300	3,500	1,370	878	3,870
9	586	701	415	410	275	240	1,030	8,590	3,390	1,330	938	3,730
10	581	683	415	420	270	235	1,040	8,710	3,250	1,300	1,140	3,490
11	813	667	415	430	270	235	1,040	8,650	3,120	1,310	1,140	3,300
12	845	653	425	440	270	235	1,050	8,490	2,980	1,270	1,160	3,090
13	850	630	430	440	265	230	1,070	8,360	2,790	1,230	1,150	2,910
14	900	606	440	440	275	230	1,120	8,370	2,640	1,250	1,110	2,740
15	988	579	455	440	295	230	1,160	8,920	2,500	1,230	1,060	2,570
16	994	553	480	435	290	235	1,200	9,730	2,400	1,270	1,020	2,390
17	992	544	510	420	285	250	1,270	10,200	2,280	1,560	974	2,240
18	1,000	531	515	410	280	290	1,360	10,200	2,170	1,640	965	2,070
19	975	537	520	400	275	345	1,450	10,300	2,040	1,680	1,020	2,000
20	971	539	515	390	270	415	1,520	10,100	1,930	1,680	961	1,900
21	948	522	510	380	265	505	1,630	9,760	1,820	1,650	923	1,790
22	934	495	505	375	260	600	1,720	9,240	1,700	1,590	893	1,660
23	908	473	500	370	255	660	1,870	8,630	1,620	1,500	993	1,540
24	889	461	490	360	250	715	2,050	8,000	1,570	1,430	1,110	1,450
25	881	454	485	355	250	760	2,370	7,300	1,610	1,350	1,210	1,370
26	934	450	475	350	250	800	2,690	6,650	1,640	1,280	1,340	1,330
27	934	450	465	350	250	820	2,800	6,110	1,590	1,200	1,380	1,340
28	940	455	460	340	245	845	2,880	5,620	1,540	1,130	1,460	1,280
29	919	460	455	335	245	865	2,900	5,170	1,480	1,080	1,480	1,240
30	896	465	450	330	------	880	3,000	4,730	1,410	1,080	1,470	1,210
31	885	------	440	320	------	900	------	4,360	------	1,040	1,430	------
TOTAL	25,790	18,173	14,255	12,295	7,980	13,445	46,062	229,990	79,080	42,000	33,136	68,050
MEAN	832	606	460	397	275	434	1,535	7,419	2,636	1,355	1,069	2,268
MAX	1,000	855	520	440	320	900	3,000	10,300	4,290	1,680	1,480	3,900
MIN	581	450	415	320	245	230	910	3,300	1,410	1,040	721	1,210
CFSM	.96	.70	.53	.46	.32	.50	1.76	8.52	3.03	1.56	1.23	2.60
IN.	1.10	.78	.61	.53	.34	.57	1.97	9.82	3.38	1.79	1.42	2.91

CAL YR 1971 TOTAL 451,012 MEAN 1,236 MAX 10,400 MIN 310 CFSM 1.42 IN 19.26
WTR YR 1972 TOTAL 590,256 MEAN 1,613 MAX 10,300 MIN 230 CFSM 1.85 IN 25.21

01014000 St. John River below Fish River, at Fort Kent, Maine

(International gaging station)

LOCATION.--Lat 47°15'27", long 68°35'35", Aroostook County, on right bank at Fort Kent, and 0.2 mile downstream from Fish River.

DRAINAGE AREA.--5,690 sq mi, approximately (not including 249 sq mi drained by Chamberlain Lake through Telos Canal).

RECORDS AVAILABLE.--October 1926 to current year. Prior to October 1931, published as "at Fort Kent."

GAGE.--Water-stage recorder. Datum of gage is 488.9 ft above mean sea level. Prior to Oct. 10, 1933, nonrecording gage on opposite bank at same datum.

AVERAGE DISCHARGE.--46 years, 9,426 cfs (22.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 88,000 cfs May 17 (gage height, 20.63 ft); minimum daily, 1,260 cfs Mar. 14.
Period of record: Maximum discharge, 131,000 cfs May 16, 1961 (gage height, 25.30 ft); minimum daily, 510 cfs Mar. 13-15, 1948.

REMARKS.--Records excellent except those for winter months, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,750	4,500	1,780	1,900	1,430	1,320	6,600	28,000	16,900	7,250	6,720	7,470
2	5,450	4,300	1,800	1,890	1,420	1,310	6,500	36,400	20,700	6,350	5,910	6,480
3	5,010	4,090	1,810	1,880	1,410	1,300	6,400	42,800	24,400	5,750	5,310	5,710
4	4,680	3,970	1,830	1,840	1,400	1,300	6,200	46,800	24,000	6,790	5,110	9,640
5	4,570	3,880	1,850	1,840	1,390	1,290	6,100	54,500	20,600	12,200	5,640	16,900
6	4,400	3,770	1,900	1,830	1,380	1,290	6,000	62,100	17,600	14,900	7,300	15,400
7	4,500	3,720	1,960	1,820	1,380	1,290	5,850	67,600	15,700	12,900	6,610	13,500
8	4,570	3,750	2,040	1,820	1,370	1,280	5,800	76,400	14,500	10,600	6,650	12,400
9	4,600	3,690	2,120	1,810	1,370	1,280	5,800	78,500	14,400	8,670	12,900	11,800
10	4,700	3,310	2,250	1,900	1,370	1,270	5,800	73,800	15,400	7,860	21,000	11,200
11	6,000	3,180	2,350	2,000	1,360	1,270	5,900	67,600	16,800	7,980	23,500	10,300
12	8,000	3,170	2,400	1,980	1,360	1,270	5,950	61,500	16,000	9,420	20,300	9,360
13	13,000	3,110	2,520	1,940	1,350	1,270	6,100	55,300	14,100	10,200	15,900	8,500
14	12,400	2,870	2,600	1,900	1,350	1,260	6,300	53,900	12,300	9,210	12,700	7,790
15	11,500	2,380	2,660	1,880	1,390	1,270	6,750	62,900	10,800	8,080	11,100	7,220
16	11,300	2,080	2,720	1,840	1,480	1,300	7,300	80,300	9,880	7,920	9,250	6,730
17	10,600	2,210	2,780	1,800	1,490	1,350	8,000	87,600	9,580	9,030	7,760	6,270
18	9,250	2,300	2,750	1,770	1,480	1,430	8,800	85,600	10,500	12,700	6,810	5,830
19	8,080	2,480	2,700	1,730	1,470	1,530	9,700	84,400	10,200	14,200	6,830	5,940
20	7,230	2,630	2,600	1,700	1,450	1,750	10,700	80,000	8,930	12,900	7,330	6,220
21	6,660	2,500	2,530	1,670	1,430	2,450	12,000	73,300	7,780	11,100	7,110	6,250
22	6,150	2,540	2,450	1,650	1,400	3,200	13,400	66,900	6,950	9,720	6,400	5,980
23	5,790	2,290	2,370	1,620	1,380	4,000	15,000	59,100	6,570	8,440	6,540	5,520
24	5,510	2,300	2,300	1,590	1,370	5,000	16,500	50,500	6,570	7,340	9,080	5,090
25	5,230	2,080	2,260	1,570	1,360	6,000	18,000	42,900	6,950	6,440	11,100	4,770
26	5,250	1,790	2,200	1,540	1,340	6,900	19,600	35,800	7,440	5,790	11,000	4,690
27	5,310	1,840	2,150	1,520	1,340	7,350	19,500	30,200	9,230	5,560	10,400	4,890
28	5,450	2,050	2,100	1,500	1,330	7,300	19,000	25,700	11,200	5,520	9,280	5,030
29	5,430	2,200	2,080	1,480	1,330	7,200	19,000	22,700	10,200	6,700	8,830	5,150
30	5,140	2,000	2,040	1,470	------	7,000	21,000	19,900	8,620	7,280	9,170	5,490
31	4,820	------	2,010	1,440	------	6,850	------	17,500	------	7,440	8,590	------
TOTAL	206,330	86,980	69,910	54,120	40,380	89,880	309,550	1,730.5M	384,800	276,240	302,130	237,520
MEAN	6,656	2,899	2,255	1,746	1,392	2,899	10,320	55,820	12,830	8,911	9,746	7,917
MAX	13,000	4,500	2,780	2,000	1,490	7,350	21,000	87,600	24,400	14,900	23,500	16,900
MIN	4,400	1,790	1,780	1,440	1,330	1,260	5,800	17,500	6,570	5,520	5,110	4,690
CFSM	1.17	.51	.40	.31	.24	.51	1.81	9.81	2.25	1.57	1.71	1.39
IN.	1.35	.57	.46	.35	.26	.59	2.02	11.31	2.52	1.81	1.98	1.55

CAL YR 1971 TOTAL 3,197,250 MEAN 8,760 MAX 88,900 MIN 1,390 CFSM 1.54 IN 20.90
WTR YR 1972 TOTAL 3,788,340 MEAN 10,350 MAX 87,600 MIN 1,260 CFSM 1.82 IN 24.77

M Expressed in thousands.

PEAK DISCHARGE (BASE, 45,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-09	0030	19.57	79,600	5-17	1030	20.63	88,000

01015800 Aroostook River near Masardis, Maine

LOCATION.--Lat 46°31'21", long 68°22'23", Aroostook County, on left bank 80 ft upstream from highway bridge and 1.8 miles downstream from St. Croix Stream and Masardis.

DRAINAGE AREA.--888 sq mi.

PERIOD OF RECORD.--September 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 530.0 ft above mean sea level.

AVERAGE DISCHARGE.--15 years, 1,427 cfs (21.82 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 14,000 cfs May 8; minimum daily, 170 cfs Mar. 5-16.
Period of record: Maximum discharge, 21,500 cfs Apr. 25, 1958 (gage height, 16.30 ft); maximum recorded gage height, 16.44 ft Dec. 23, 1957 (ice jam); minimum discharge, 41 cfs Sept. 26, 27, 1968 (gage height, 1.89 ft).

REMARKS.--Records fair. Considerable regulation by Millinocket Lake (capacity, 1,110,000,000 cu ft) used for power. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	447	505	420	435	225	180	1,450	2,900	4,830	1,130	1,010	594
2	413	475	400	425	220	175	1,350	4,500	5,530	1,030	850	521
3	386	450	385	415	215	175	1,250	6,500	5,620	971	805	474
4	357	449	375	405	210	175	1,170	7,730	6,040	2,090	965	1,790
5	334	444	365	395	210	170	1,120	9,810	5,140	2,880	1,070	5,940
6	320	422	360	390	215	170	1,060	11,400	4,560	2,430	942	5,450
7	328	419	350	390	225	170	1,020	12,700	4,230	1,910	805	4,200
8	333	581	350	395	230	170	980	13,800	3,540	1,540	746	3,270
9	327	732	345	405	230	170	940	13,600	3,460	1,270	778	2,660
10	322	577	340	415	220	170	930	12,300	4,410	1,120	1,010	2,260
11	585	645	340	420	210	170	920	10,700	4,280	1,060	1,260	1,920
12	1,250	574	360	410	205	170	910	9,350	3,450	1,010	1,100	1,700
13	1,320	480	400	405	200	170	905	8,340	3,000	924	930	1,470
14	1,180	419	480	390	200	170	900	7,940	2,900	878	800	1,210
15	1,160	400	560	380	205	170	900	8,980	2,540	827	690	1,010
16	1,120	395	600	370	210	170	910	11,500	2,540	762	617	901
17	980	385	630	355	215	200	930	13,500	2,720	977	566	838
18	859	380	600	345	215	280	970	13,300	2,410	1,770	54[illegible]	789
19	762	375	560	330	210	400	1,030	13,000	2,040	1,760	68[illegible]	731
20	678	371	530	325	205	620	1,120	12,100	1,[illegible]50	1,590	822	710
21	616	361	500	315	205	800	1,230	10,400	1,540	1,430	741	794
22	569	360	480	305	200	950	1,390	9,030	1,370	1,480	705	757
23	530	355	460	295	195	1,150	1,600	7,560	1,360	1,340	762	746
24	492	350	445	285	190	1,400	1,900	6,020	1,590	1,090	816	715
25	465	350	425	275	190	1,650	2,400	4,630	2,100	884	746	660
26	517	345	420	270	185	1,850	3,000	3,790	2,240	746	789	607
27	656	370	450	260	185	2,000	3,450	3,100	2,030	731	971	665
28	687	420	485	250	180	1,950	3,560	2,410	1,740	731	889	731
29	658	460	475	245	180	1,800	3,300	1,700	1,490	884	811	705
30	607	440	460	235	------	1,700	3,000	1,570	1,350	1,270	710	675
31	551	------	450	230	------	1,550	------	2,300	------	1,220	650	------
TOTAL	19,809	13,289	13,800	10,765	5,965	21,045	45,595	256,460	91,810	39,735	25,585	45,493
MEAN	639	443	445	347	206	679	1,520	8,273	3,060	1,282	825	1,516
MAX	1,320	732	630	435	230	2,000	3,560	13,800	6,040	2,880	1,260	5,940
MIN	320	345	340	230	180	170	900	1,570	1,350	731	544	474
MEAN*	656	466	355	191	202	676	1,562	8,568	3,022	1,328	788	1,442
CFSM*	.74	.52	.40	.22	.23	.76	1.76	9.65	3.40	1.50	.89	1.62
IN. *	.85	.59	.46	.25	.24	.88	1.96	11.12	3.79	1.73	1.02	1.81

CAL YR 1971 TOTAL 419,644 MEAN 1,150 MAX 15,400 MIN 196 MEAN* 1,136 CFSM* 1.28 IN* 17.37
WTR YR 1972 TOTAL 589,371 MEAN 1,610 MAX 13,800 MIN 170 MEAN* 1,612 CFSM* 1.82 IN* 24.70

*Adjusted for change in contents in Millinocket Lake. Records furnished by Maine Public Service Co.

01016500 Machias River near Ashland, Maine

LOCATION.--Lat 46°37'42", long 68°26'07", Aroostook County, on right bank 100 ft upstream from highway bridge, 0.8 mile upstream from mouth, and 1.5 miles west of Ashland.

DRAINAGE AREA.--330 sq mi.

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (from topographic map).

AVERAGE DISCHARGE.--21 years, 545 cfs (22.43 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,480 cfs May 17 (gage height, 6.49 ft); minimum daily, 56 cfs Mar. 12-16.

Period of record: Maximum discharge, 16,600 cfs June 29, 1954 (gage height, 11.94 ft), from rating curve extended above 7,900 cfs; minimum, 5.4 cfs Sept. 17, 1952.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	269	150	110	64	61	465	1,750	660	298	286	253
2	218	255	140	110	63	61	440	2,310	1,260	281	245	225
3	201	243	135	105	61	60	425	2,740	1,750	278	229	204
4	184	241	135	100	60	59	410	3,280	1,560	798	267	896
5	171	232	130	100	60	59	395	4,310	1,530	929	263	2,200
6	162	219	130	100	62	59	380	4,830	1,340	770	230	2,350
7	176	226	125	100	65	59	370	5,230	1,100	619	206	2,060
8	182	304	120	105	67	58	360	5,410	993	502	205	1,560
9	173	301	120	105	66	58	350	5,110	889	425	247	1,170
10	164	238	120	110	64	57	345	4,550	833	370	334	913
11	363	248	120	105	63	57	340	3,930	992	347	399	735
12	624	236	125	105	62	56	335	3,420	913	329	397	610
13	638	220	140	100	60	56	330	3,100	747	304	365	521
14	586	195	160	98	65	56	325	3,180	612	297	325	465
15	571	168	175	96	69	56	325	4,060	535	287	289	431
16	540	192	185	94	73	56	330	5,970	700	272	256	397
17	487	180	190	91	76	65	350	6,380	784	403	229	366
18	436	170	190	89	76	79	365	5,970	654	621	216	333
19	395	165	175	87	74	105	400	5,450	540	567	242	306
20	363	160	165	85	72	135	440	4,880	458	482	244	288
21	338	155	160	82	70	180	500	4,250	402	419	224	272
22	318	150	155	80	69	230	570	3,620	359	382	206	252
23	298	150	145	78	67	300	710	3,010	358	336	226	236
24	281	145	140	76	66	375	880	2,450	398	292	318	217
25	271	140	135	74	65	490	1,100	1,960	508	257	421	204
26	325	140	130	72	64	610	1,240	1,570	552	232	449	201
27	365	160	125	71	63	680	1,230	1,250	491	228	410	226
28	363	190	120	70	62	640	1,150	1,030	427	217	356	236
29	342	175	120	68	62	590	1,070	868	373	243	319	229
30	316	160	115	66	------	530	1,170	728	330	334	303	227
31	290	------	110	65	------	495	------	618	------	334	281	------
TOTAL	10,376	6,027	4,375	2,797	1,910	6,431	17,100	107,214	23,048	12,453	8,987	18,583
MEAN	335	201	141	90.2	65.9	207	570	3,459	768	402	290	619
MAX	638	304	190	110	76	680	1,240	6,380	1,750	929	449	2,350
MIN	162	140	110	65	60	56	325	618	330	217	205	201
CFSM	1.02	.61	.43	.27	.20	.63	1.73	10.5	2.33	1.22	.88	1.88
IN.	1.17	.68	.49	.32	.22	.72	1.93	12.09	2.60	1.40	1.01	2.09

CAL YR 1971 TOTAL 176,283 MEAN 483 MAX 7,100 MIN 55 CFSM 1.46 IN 19.87
WTR YR 1972 TOTAL 219,301 MEAN 599 MAX 6,380 MIN 56 CFSM 1.82 IN 24.72

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-08	0500	5.87	5,450	5-17	0400	6.49	6,480

01017000 Aroostook River at Washburn, Maine

LOCATION.--Lat 46°46'36", long 68°09'29", Aroostook County, on right bank 50 ft upstream from Bangor & Aroostook Railroad bridge, 0.1 mile downstream from Salmon Brook, and 1.0 mile south of railroad station at Washburn.

DRAINAGE AREA.--1,652 sq mi.

PERIOD OF RECORD.--August 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 436.40 ft above mean sea level. Prior to Oct. 1, 1948, at datum 2.00 ft higher.

AVERAGE DISCHARGE.--42 years, 2,573 cfs (21.15 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 24,200 cfs May 17 (gage height, 10.24 ft); minimum daily, 360 cfs Mar. 14-16.

Period of record: Maximum discharge, 37,800 cfs Mar. 22, 1936 (gage height, 13.80 ft, present datum); maximum gage height, 15.78 ft Apr. 6, 1951 (backwater from ice); minimum daily discharge, 75 cfs Feb. 13-15, 1948.

REMARKS.--Records excellent except those for winter period, which are fair. Considerable regulation by Squa Pan Lake (capacity, 2,893,000,000 cu ft), and by Millinocket Lake (capacity, 1,110,000,000 cu ft) used for power.

REVISIONS (WATER YEARS).--WSP 951: 1935. WSP 1301: 1933-50 (adjusted monthly runoff). WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	835	1,010	730	745	465	430	2,800	9,760	3,020	1,690	1,470	850
2	796	941	705	730	460	425	2,650	11,800	5,510	1,470	1,220	780
3	705	902	690	705	455	415	2,450	12,800	9,010	1,380	1,120	690
4	662	891	670	680	450	410	2,300	14,600	8,960	3,400	1,140	710
5	621	878	665	665	450	400	2,150	18,000	9,340	5,120	1,320	9,200
6	581	861	655	645	455	395	2,000	20,500	9,200	4,350	1,260	11,000
7	605	854	645	630	490	390	1,930	22,400	7,680	3,490	1,110	8,800
8	618	1,040	640	610	510	385	1,850	23,300	6,830	2,800	1,040	6,600
9	621	1,310	635	600	530	380	1,800	22,700	6,130	2,330	1,090	4,800
10	613	1,100	630	600	520	370	1,750	20,700	5,300	2,110	1,300	4,150
11	1,030	1,110	625	660	500	370	1,700	18,200	6,300	1,890	1,600	3,500
12	2,120	1,100	620	645	480	365	1,670	16,100	6,680	1,670	1,750	2,800
13	2,560	960	710	630	465	365	1,650	14,500	6,200	1,450	1,550	2,350
14	2,350	865	790	610	465	360	1,620	13,800	4,880	1,360	1,330	2,050
15	2,250	703	810	600	475	360	1,600	15,400	4,210	1,300	1,180	1,850
16	2,180	690	1,010	590	495	360	1,620	20,800	4,450	1,190	1,000	1,600
17	1,970	738	1,080	580	515	390	1,650	24,000	4,850	1,480	900	1,550
18	1,740	709	1,060	570	545	520	1,700	23,200	4,450	2,550	830	1,350
19	1,530	702	990	560	570	750	1,770	22,300	3,650	2,910	860	1,200
20	1,380	670	925	550	560	1,100	1,880	20,400	3,110	2,460	1,050	1,100
21	1,230	645	890	545	535	1,500	2,100	17,900	2,880	2,120	1,100	1,030
22	1,130	640	860	535	520	1,900	2,350	15,500	2,540	1,990	960	950
23	1,050	630	820	530	505	2,300	2,650	13,100	2,430	1,880	1,000	920
24	983	620	800	520	490	2,750	3,400	10,700	2,570	1,600	1,300	900
25	934	620	775	510	475	3,150	4,400	8,390	3,360	1,350	1,700	890
26	1,060	620	760	505	460	3,550	5,600	6,840	3,860	1,150	1,800	880
27	1,310	650	760	500	450	4,000	6,900	5,620	3,420	1,030	1,650	1,030
28	1,420	730	840	490	445	3,880	7,260	4,550	2,870	1,010	1,500	1,150
29	1,350	840	830	480	440	3,600	7,390	3,840	2,380	1,020	1,300	1,080
30	1,240	760	800	475	------	3,250	7,260	3,290	2,020	1,410	1,150	1,000
31	1,110	------	770	470	------	3,050	------	2,830	------	1,660	1,000	------
TOTAL	38,582	24,789	24,190	18,165	14,165	41,870	87,850	457,820	148,090	62,620	38,580	76,760
MEAN	1,245	826	780	586	488	1,351	2,928	14,770	4,936	2,020	1,245	2,559
MAX	2,560	1,310	1,080	745	570	4,000	7,390	24,000	9,340	5,120	1,800	11,000
MIN	581	620	620	470	440	360	1,600	2,830	2,020	1,010	830	690
MEAN*	1,279	867	629	274	262	1,178	3,144	15,580	4,956	2,076	1,198	2,446
CFSM*	.77	.52	.38	.17	.16	.71	1.90	9.43	3.00	1.26	.72	1.48
IN. *	.89	.59	.44	.19	.17	.82	2.12	10.87	3.35	1.45	.84	1.65

CAL YR 1971 TOTAL 785,026 MEAN 2,151 MAX 27,000 MIN 338 MEAN* 2,128 CFSM* 1.29 IN* 17.48
WTR YR 1972 TOTAL 1,033,481 MEAN 2,824 MAX 24,000 MIN 360 MEAN* 2,838 CFSM* 1.72 IN* 23.38

*Adjusted for change in contents in Millinocket and Squa Pan Lakes. Records furnished by Maine Public Service Co.

Note.--Once daily gage-height readings only from Aug. 11 to Sept. 30.

01017900 Marley Brook near Ludlow, Maine

LOCATION.--Lat 46°08'42", long 68°03'42", Aroostook County, on left bank at upstream entrance of culvert under U.S. Route 2, 2,200 ft upstream from mouth, and 1.1 miles west of Ludlow.

DRAINAGE AREA.--1.47 sq mi.

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage 610 ft (topographic map).

AVERAGE DISCHARGE.--8 years (1965-72), 2.33 cfs (21.5 inches per year).

EXTREMES.--Current year: Maximum discharge, 46 cfs May 7 (gage height, 5.17 ft); maximum gage height, 5.22 ft May 4 (backwater from ice); minimum discharge 0.09 cfs Oct. 1, 2, Nov. 24, 25 (gage height, 3.53 ft).
Period of record: Maximum discharge, 140 cfs Nov. 3, 1966 (gage height, 7.13 ft); minimum discharge, 0.02 cfs Aug. 31, Sept. 1-4, 1966 and Aug. 12, 1968.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.37	.59	.50	.27	.27	1.7	6.1	7.1	.90	.48	.18
2	.11	.37	.52	.48	.27	.26	1.7	7.0	16	.94	.55	.18
3	.14	.37	.49	.45	.26	.26	1.6	8.5	6.6	1.4	.67	.26
4	.14	.48	.46	.44	.26	.26	1.6	11	4.5	14	1.4	9.1
5	.14	.64	.43	.42	.26	.25	1.5	15	8.0	3.5	.81	2.8
6	.15	.53	.41	.40	.25	.25	1.5	22	3.7	2.2	.62	1.4
7	.39	1.0	.40	.39	.25	.25	1.5	35	3.0	1.6	.51	.81
8	.37	2.1	.39	.37	.25	.26	1.4	24	3.5	1.4	.47	.62
9	.42	1.3	.38	.36	.25	.31	1.4	18	2.5	1.1	.48	.57
10	.59	.93	.38	.35	.25	.40	1.4	13	3.8	1.1	.48	.43
11	.80	.63	.86	.34	.25	.35	1.4	9.6	16	2.0	.46	.32
12	1.2	.43	1.5	.33	.25	.31	1.4	9.1	5.0	1.3	.42	.26
13	.74	.39	1.2	.32	.28	.29	1.4	8.6	3.2	.94	.40	.22
14	.56	.29	.92	.32	.42	.27	1.5	9.5	2.5	.81	.36	.20
15	.56	.18	.76	.33	.70	.26	1.5	14	2.2	.76	.31	.19
16	.51	.18	.68	.34	.56	.26	1.6	14	1.9	.63	.31	.18
17	.33	.18	.61	.77	.48	.35	1.7	9.6	1.2	1.0	.31	.18
18	.25	.18	.57	.56	.44	1.0	1.9	12	1.5	.95	.43	.18
19	.26	.18	.53	.49	.40	3.5	2.3	19	1.4	.63	.87	.18
20	.26	.30	.50	.43	.37	15	2.7	7.6	1.1	.64	.55	.18
21	.18	.37	.47	.40	.34	7.3	3.3	5.4	1.1	1.0	.40	.18
22	.18	.43	.45	.38	.32	4.3	4.1	4.1	1.0	1.2	.31	.22
23	.18	.32	.43	.36	.31	3.0	5.4	3.4	1.3	.76	.31	.22
24	.18	.18	.45	.34	.30	2.9	6.4	3.0	4.5	.62	.26	.22
25	.22	.13	.52	.33	.30	2.6	5.9	2.8	3.7	.50	.22	.22
26	.66	.62	.65	.32	.28	2.3	5.3	2.3	2.6	.50	.22	.26
27	.86	1.3	.90	.31	.28	2.1	5.0	2.2	1.9	.50	.22	.37
28	.61	1.1	.76	.30	.27	2.0	4.8	1.9	1.5	.50	.18	.37
29	.55	.90	.64	.29	.27	1.9	5.1	1.8	1.2	.62	.18	.37
30	.43	.68	.57	.28	------	1.8	5.5	1.5	.98	1.1	.18	.49
31	.41	------	.53	.28	------	1.8	------	1.4	------	.65	.18	------
TOTAL	12.49	17.06	18.95	11.98	9.39	56.36	83.5	302.4	114.48	45.75	13.55	21.36
MEAN	.40	.57	.61	.39	.32	1.82	2.78	9.75	3.82	1.48	.44	.71
MAX	1.2	2.1	1.5	.77	.70	15	6.4	35	16	14	1.4	9.1
MIN	.11	.13	.38	.28	.25	.25	1.4	1.4	.98	.50	.18	.18
CFSM	.27	.39	.42	.27	.22	1.24	1.89	6.63	2.60	1.01	.30	.48
IN.	.32	.43	.48	.30	.24	1.43	2.11	7.65	2.90	1.16	.34	.54

CAL YR 1971 TOTAL 808.35 MEAN 2.21 MAX 47 MIN .04 CFSM 1.50 IN 20.46
WTR YR 1972 TOTAL 707.27 MEAN 1.93 MAX 35 MIN .11 CFSM 1.31 IN 17.90

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-20	----	----	25	6-11	0215	4.77	30
5-07	1900	5.17	46	7-04	0230	4.75	29
5-18	2300	5.14	45				

01018000 Meduxnekeag River near Houlton, Maine

LOCATION.--Lat 46°06'17", long 67°52'00", Aroostook County, on right bank 0.3 mile downstream from South Branch, and 2.0 miles upstream from Houlton.

DRAINAGE AREA.--175 sq mi.

PERIOD OF RECORD.--October 1940 to current year. October 1940 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 333.92 ft above mean sea level.

AVERAGE DISCHARGE.--32 years, 284 cfs (22.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,950 cfs May 5 (gage height, 6.65 ft); minimum, 5.2 cfs Oct. 4 (gage height, 2.21 ft).

Period of record: Maximum discharge, 6,620 cfs Apr. 23, 1958 (gage height, 9.30 ft); maximum gage height, 10.83 ft Mar. 27, 1953 (backwater from ice); minimum discharge, 3.6 cfs Sept. 19, 1946 (gage height, 2.09 ft).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 1031: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	25	50	76	50	37	295	600	288	179	54	20
2	7.7	21	48	73	48	36	270	800	1,060	[illegible]	48	17
3	6.4	22	46	70	46	35	255	1,100	1,320	140	49	18
4	5.5	26	45	68	45	35	240	1,400	951	274	74	185
5	6.5	28	45	68	44	34	230	1,850	828	336	70	355
6	6.4	28	44	65	43	34	220	2,200	706	248	59	298
7	12	34	44	64	42	34	210	2,460	558	179	50	221
8	13	76	43	62	41	35	205	2,620	514	140	46	167
9	12	75	43	61	40	38	200	2,230	443	117	42	131
10	14	51	43	60	40	40	195	1,800	427	100	39	97
11	54	43	45	58	39	39	190	1,450	822	130	35	75
12	91	36	56	57	39	38	190	1,210	918	136	31	65
13	73	27	87	56	38	36	190	1,080	712	114	29	52
14	58	24	100	55	39	35	185	1,010	524	100	26	45
15	51	30	91	59	42	33	190	1,140	412	86	23	41
16	44	18	83	65	47	32	195	1,490	351	78	22	29
17	39	16	77	73	52	38	200	1,500	302	94	19	25
18	32	14	72	80	52	65	220	1,270	256	108	21	21
19	27	14	67	79	51	150	240	1,130	256	97	37	20
20	29	15	64	76	49	530	270	986	239	88	41	17
21	24	17	61	73	47	680	310	816	202	84	36	17
22	22	17	59	70	46	740	360	684	172	86	31	16
23	19	16	57	68	44	700	450	563	164	74	28	14
24	19	16	58	65	43	640	580	464	256	60	28	15
25	19	15	63	63	42	580	640	391	438	52	25	15
26	24	43	72	61	41	530	620	331	412	46	23	14
27	28	57	83	59	39	480	585	288	371	44	22	16
28	32	65	90	57	38	430	545	256	298	41	24	16
29	29	56	88	55	38	380	530	226	248	41	24	16
30	30	52	84	53	------	350	540	190	206	56	22	21
31	25	------	80	51	------	320	------	168	------	58	20	------
TOTAL	861.0	977	1,988	2,000	1,265	7,184	9,550	33,703	14,654	3,546	1,098	2,059
MEAN	27.8	32.6	64.1	64.5	43.6	232	318	1,087	488	114	35.4	68.6
MAX	91	76	100	80	52	740	640	2,620	1,320	336	74	355
MIN	5.5	14	43	51	38	32	185	168	164	41	19	14
CFSM	.16	.19	.37	.37	.25	1.33	1.82	6.21	2.79	.65	.20	.39
IN.	.18	.21	.42	.43	.27	1.53	2.03	7.16	3.12	.75	.23	.44

CAL YR 1971 TOTAL 95,641.8 MEAN 262 MAX 3,230 MIN 5.5 CFSM 1.50 IN 20.33
WTR YR 1972 TOTAL 78,885.0 MEAN 216 MAX 2,620 MIN 5.5 CFSM 1.23 IN 16.77

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-05	0800	6.65	2,950				

01018500 St. Croix River at Vanceboro, Maine

(International gaging station)

LOCATION.--Lat 45°34'08", long 67°25'47", Washington County, on right bank at international highway bridge in Vanceboro, and 400 ft downstream from outlet of Spednik Lake.

DRAINAGE AREA.--417 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 367.75 ft above mean sea level.

AVERAGE DISCHARGE.--44 years, 699 cfs (22.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,880 cfs May 24 (gage height, 6.97 ft); minimum daily, 215 cfs Dec. 14, 15.

Period of record: Maximum discharge, 4,980 cfs May 30, 1961 (gage height, 9.65 ft); minimum daily, 1.9 cfs Oct. 22, Nov. 4, 1936, when flow was held back by cofferdam during repairs to dam just upstream.

REMARKS.--Records good. Flow regulated by Chiputneticook Lakes (combined usable capacity, about 13,200,000,000 cu ft). Final regulation is at Spednik Lake Dam about 400 ft upstream.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

REVISIONS.--WSP 1431: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	361	240	236	255	270	293	355	1,240	427	1,130	640
2	220	408	240	236	255	270	293	359	963	427	1,120	1,100
3	220	439	240	238	255	272	296	364	694	427	1,100	1,090
4	240	435	240	238	255	274	298	370	693	427	1,110	710
5	260	429	240	238	255	274	301	376	693	442	1,100	320
6	380	413	240	242	255	274	302	384	810	428	1,080	320
7	420	406	240	242	255	274	302	388	903	729	1,080	320
8	420	428	240	244	255	276	302	399	885	871	1,080	322
9	415	423	240	246	255	278	302	410	885	878	898	322
10	410	399	240	246	255	278	302	401	885	876	773	323
11	410	389	240	248	255	278	302	382	989	867	764	809
12	410	379	240	248	255	278	302	382	1,070	862	762	882
13	405	377	225	248	255	278	304	389	1,070	948	764	1,120
14	405	372	215	248	258	278	310	399	1,060	1,210	764	905
15	400	363	215	248	263	278	314	353	1,060	1,300	764	1,100
16	399	362	217	250	263	278	314	289	1,120	1,210	901	1,090
17	396	349	218	250	263	278	314	289	1,240	1,210	1,040	1,080
18	393	344	218	250	265	286	319	289	1,230	654	1,040	1,010
19	386	335	220	256	265	304	322	289	1,120	229	1,040	619
20	386	333	220	261	268	291	322	289	1,040	774	1,050	571
21	384	334	220	260	268	270	323	289	1,030	1,190	1,030	711
22	379	334	224	260	268	274	327	325	1,030	1,200	1,030	674
23	379	332	233	257	268	280	327	928	1,030	1,200	1,030	1,040
24	379	320	231	257	268	280	334	1,760	1,030	1,180	1,020	1,040
25	375	315	233	258	268	283	334	1,690	1.040	1,160	816	687
26	370	321	233	260	268	285	337	1,400	1,040	1,160	1,080	636
27	370	324	233	260	268	286	342	1,260	1,040	1,160	1,140	655
28	370	324	234	260	268	289	344	1,260	1,040	1,160	1,130	669
29	370	311	234	260	268	289	347	1,250	1,040	1,160	1,120	761
30	368	269	234	260	------	291	349	1,240	784	1,130	607	1,000
31	364	------	235	260	------	293	------	1,240	------	1,120	342	------
TOTAL	11,308	10,928	7,172	7,765	7,572	8,687	9,478	19,798	29,754	28,016	29,705	22,526
MEAN	365	364	231	250	261	280	316	639	992	904	958	751
MAX	420	439	240	261	268	304	349	1,760	1,240	1,300	1,140	1,120
MIN	220	269	215	236	255	270	293	289	693	229	342	320

CAL YR 1971 TOTAL 285,806 MEAN 783 MAX 4,200 MIN 215
WTR YR 1972 TOTAL 192,709 MEAN 527 MAX 1,760 MIN 215

01019000 Grand Lake Stream at Grand Lake Stream, Maine

LOCATION.--Lat 45°10'23", long 67°46'06", Washington County, on left bank at Big Falls, 0.5 mile southeast of village of Grand Lake Stream, and 0.8 mile downstream from outlet dam of Grand Lake.

DRAINAGE AREA.--224 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 273.96 ft above mean sea level.

AVERAGE DISCHARGE.--44 years, 388 cfs (23.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,200 cfs June 11 (gage height, 4.20 ft); minimum daily, 57 cfs Nov. 27.

Period of record: Maximum discharge, 2,840 cfs June 12, 1952 (gage height, 6.35 ft); minimum daily, 5 cfs Dec. 3-6, 11, 1945.

REMARKS.--Records excellent except for period of no gage-height record, which are good. Flow completely regulated by Grand Lake, 0.8 mile upstream, and other lakes (combined usable capacity, about 8,250,000,000 cu ft). Records of chemical analyses for water year 1972 are published in Part 2 of this report.

REVISIONS.--WSP 971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	105	280	190	321	293	153	199	621	527	546	972
2	140	99	280	190	318	293	155	199	634	526	546	953
3	140	99	280	190	314	300	156	199	639	434	540	939
4	139	99	275	185	319	304	157	214	641	177	547	982
5	134	97	275	185	319	304	158	214	791	175	539	973
6	129	95	270	185	316	307	159	212	963	203	534	958
7	132	93	270	185	315	305	159	213	960	298	529	937
8	131	89	265	185	311	310	159	213	957	298	528	732
9	130	79	265	180	309	315	160	211	954	298	524	535
10	135	73	265	180	309	312	162	211	964	298	522	652
11	147	73	260	180	306	310	163	213	1,100	298	520	733
12	138	72	310	180	302	309	165	213	1,190	565	511	843
13	132	71	340	180	300	308	165	213	1,190	544	512	830
14	128	70	340	180	308	306	167	198	1,180	446	507	817
15	127	69	340	180	308	305	168	214	1,170	442	502	800
16	125	68	340	180	305	305	170	237	1,060	442	708	780
17	121	67	335	180	301	312	171	249	632	627	897	761
18	119	66	335	180	295	348	176	245	625	820	887	751
19	115	65	335	175	293	348	177	242	565	810	888	635
20	113	66	335	175	300	291	178	251	519	802	880	556
21	124	64	330	175	298	204	178	258	512	795	868	544
22	126	62	330	175	297	208	180	443	516	792	857	538
23	119	61	330	175	298	218	181	705	521	782	916	573
24	118	60	330	200	298	224	185	629	526	771	945	671
25	110	59	330	335	297	227	188	629	527	763	930	655
26	135	58	325	331	296	231	189	625	530	771	997	585
27	143	57	325	329	298	201	189	623	530	774	1,070	509
28	136	90	240	327	297	149	188	620	527	770	1,060	493
29	122	285	190	326	294	151	190	620	527	766	1,050	487
30	111	280	190	324	------	151	196	618	525	764	1,020	505
31	108	------	190	323	------	151	------	615	------	629	997	------
TOTAL	3,971	2,691	9,105	6,665	8,842	8,300	5,142	10,745	22,596	17,407	22,877	21,699
MEAN	128	89.7	294	215	305	268	171	347	753	562	738	723
MAX	147	285	340	335	321	348	196	705	1,190	820	1,070	982
MIN	108	57	190	175	293	149	153	198	512	175	502	487

CAL YR 1971 TOTAL 141,398 MEAN 387 MAX 1,670 MIN 57
WTR YR 1972 TOTAL 140,040 MEAN 383 MAX 1,190 MIN 57

Note.--No gage-height record Nov. 28 to Jan. 25.

01020000 St. Croix River near Baileyville, Maine

(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, in township of Baileyville, on right bank 700 ft downstream from powerhouse of Georgia-Pacific Corporation, at Grand Falls, and 8 miles upstream from village of Woodland.

DRAINAGE AREA.--1,320 sq mi.

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 148.8 ft above mean sea level.

AVERAGE DISCHARGE.--53 years, 2,269 cfs (23.34 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,000 cfs May 5 (gage height, 7.42 ft); minimum daily, 643 cfs Nov. 17.

Period of record: Maximum discharge, about 23,300 cfs May 1, 1923 (gage height, 13.90 ft); minimum daily, 64 cfs Oct. 13, 1957.

REMARKS.--Records excellent. Flow regulated by Chiputneticook Lakes, Grand and other lakes (combined capacity, about 25,000,000,000 cu ft). Final regulation is at Grand Falls Dam about 700 ft upstream. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

REVISIONS (WATER YEARS).--WSP 1231: 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	932	871	1,320	1,240	1,930	951	2,790	6,270	2,790	3,580	2,630	2,190
2	954	801	1,560	1,540	1,830	955	2,750	7,680	3,750	3,420	1,890	2,200
3	972	743	1,530	1,110	1,550	1,070	2,740	7,800	4,420	2,160	2,000	2,010
4	973	913	1,710	1,190	1,240	1,160	2,780	8,420	4,600	1,420	2,430	1,510
5	948	1,010	1,420	1,160	1,340	1,190	2,800	10,200	4,520	1,730	2,630	1,840
6	882	1,040	1,670	1,120	1,200	1,310	2,830	10,500	3,900	2,300	2,620	2,330
7	785	1,040	1,120	1,110	1,250	1,210	2,810	9,800	3,460	2,390	2,620	2,420
8	854	1,000	1,160	1,100	1,580	1,440	2,780	9,330	3,090	2,550	2,620	2,470
9	855	969	1,620	1,110	1,380	1,610	2,750	8,700	3,400	2,370	2,410	2,440
10	855	940	1,740	1,150	1,200	1,690	2,290	7,310	3,710	2,490	2,460	2,500
11	1,160	833	954	1,230	1,070	1,680	2,240	6,840	3,770	2,670	2,480	2,450
12	1,570	883	925	1,220	1,100	1,680	2,230	5,890	4,580	2,650	2,480	2,560
13	1,560	841	907	1,480	1,100	1,670	2,300	5,140	5,150	2,650	2,460	2,420
14	1,480	846	732	1,110	825	2,030	2,330	4,700	4,380	2,580	2,580	2,190
15	1,010	773	731	1,110	755	2,090	2,350	4,400	3,750	2,540	2,560	2,140
16	929	671	742	1,390	891	2,140	2,380	4,960	3,730	2,490	2,530	2,140
17	1,120	643	792	1,660	860	2,140	2,460	5,270	3,700	2,390	2,580	2,150
18	949	674	794	1,730	962	2,340	2,680	5,120	3,690	2,090	2,540	2,110
19	869	671	806	1,710	916	2,740	2,590	4,380	3,550	1,960	2,380	2,030
20	885	656	795	1,750	920	2,800	2,670	3,970	3,130	1,990	2,500	1,730
21	1,020	655	787	1,770	918	2,850	2,810	3,980	2,870	1,600	2,500	1,580
22	1,590	661	829	1,730	923	2,930	2,820	3,950	2,800	1,420	2,350	1,600
23	1,560	666	832	1,670	934	3,740	2,810	3,710	2,860	1,430	2,490	1,940
24	1,720	675	826	1,690	758	3,360	2,780	3,200	2,750	1,610	2,470	1,930
25	1,510	681	809	1,690	692	2,860	2,810	2,880	4,740	1,930	2,400	1,910
26	1,510	697	803	1,770	742	2,850	3,360	2,970	5,690	1,750	2,300	1,440
27	1,050	696	833	1,700	698	2,850	4,540	2,920	5,600	1,560	2,180	1,530
28	1,090	767	1,130	1,650	768	2,790	5,140	2,760	5,540	1,920	2,140	1,780
29	1,230	1,110	1,150	1,830	837	2,840	5,100	2,730	4,840	2,240	2,290	1,410
30	1,080	1,110	1,150	1,540	------	2,840	5,120	2,660	3,910	2,580	2,380	1,280
31	1,080	------	1,120	1,930	------	2,850	------	2,610	------	2,570	2,230	------
TOTAL	34,982	24,536	33,297	45,190	31,169	66,656	88,840	171,050	118,670	69,030	75,130	60,230
MEAN	1,128	818	1,074	1,458	1,075	2,150	2,961	5,518	3,956	2,227	2,424	2,008
MAX	1,720	1,110	1,740	1,930	1,930	3,740	5,140	10,500	5,690	3,580	2,630	2,560
MIN	785	643	731	1,100	692	951	2,230	2,610	2,750	1,420	1,890	1,280

CAL YR 1971 TOTAL 849,828 MEAN 2,328 MAX 10,500 MIN 643
WTR YR 1972 TOTAL 818,780 MEAN 2,237 MAX 10,500 MIN 643

01021200 Dennys River at Dennysville, Maine

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, on right bank 100 ft upstream from railroad bridge, 0.9 mile upstream from Cathance Stream, and 1 mile west of Dennysville.

DRAINAGE AREA.--92.4 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 54.78 ft above mean sea level.

AVERAGE DISCHARGE.--17 years, 182 cfs (26.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,000 cfs May 4 (gage height, 6.47 ft); minimum, 13 cfs Oct. 8 (gage height, 0.40 ft).

Period of record: Maximum discharge, 2,700 cfs probably May 27, 1961 (gage height, 7.61 ft from floodmark); minimum, 8.4 cfs Oct. 1, 1957 (gage height, 0.28 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Flow slightly regulated by dam at outlet of Meddybemps Lake 14 miles upstream. Records of chemical analyses and water temperatures for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	255	47	25	67	158	846	93	180	100	72
2	18	20	235	44	22	67	184	814	170	204	96	71
3	17	20	190	87	20	66	218	703	236	173	93	74
4	16	22	123	125	29	66	230	1,550	184	153	168	426
5	15	23	71	112	41	66	220	1,490	186	137	168	517
6	14	22	54	93	36	66	196	1,210	157	128	129	322
7	14	24	58	77	32	66	173	1,170	126	123	112	200
8	14	38	63	64	28	98	152	1,110	141	126	108	145
9	14	42	59	56	26	115	137	982	154	126	98	129
10	19	38	60	103	24	105	131	866	308	120	108	128
11	157	33	98	169	22	92	137	770	523	118	108	116
12	165	29	192	160	21	83	165	726	377	116	96	102
13	117	26	182	141	22	76	204	701	240	111	90	93
14	82	24	149	208	250	75	262	694	180	142	86	92
15	61	22	112	212	320	70	285	755	152	142	82	92
16	49	21	90	145	220	67	282	1,020	139	128	80	87
17	43	20	74	96	160	72	298	962	152	122	81	84
18	38	32	56	68	130	175	356	830	149	118	80	81
19	33	43	43	60	115	355	493	740	139	116	88	80
20	31	51	34	63	105	340	418	670	137	116	87	78
21	35	59	34	52	93	320	433	698	136	112	82	75
22	28	59	35	44	87	275	436	684	142	111	80	72
23	26	56	30	51	82	400	490	620	228	106	77	72
24	24	50	36	84	79	659	502	574	292	102	77	71
25	23	57	201	133	75	547	604	529	352	100	75	70
26	23	689	171	246	72	424	631	371	285	108	74	70
27	23	496	136	145	71	330	556	198	250	114	72	71
28	23	288	106	84	70	260	493	120	214	111	84	71
29	23	182	90	49	68	220	523	110	179	108	86	68
30	22	178	70	34	------	190	638	98	158	118	81	155
31	22	------	55	28	------	169	------	92	------	106	75	------
TOTAL	1,207	2,684	3,162	3,080	2,345	5,981	10,005	22,703	6,179	3,895	2,921	3,784
MEAN	38.9	89.5	102	99.4	80.9	193	334	732	206	126	94.2	126
MAX	165	689	255	246	320	659	638	1,550	523	204	168	517
MIN	14	20	30	28	20	66	131	92	93	100	72	68
CFSM	.42	.97	1.10	1.08	.88	2.09	3.61	7.92	2.23	1.36	1.02	1.36
IN.	.49	1.08	1.27	1.24	.94	2.41	4.03	9.14	2.49	1.57	1.18	1.52

CAL YR 1971 TOTAL 59,081 MEAN 162 MAX 858 MIN 14 CFSM 1.75 IN 23.79
WTR YR 1972 TOTAL 67,946 MEAN 186 MAX 1,550 MIN 14 CFSM 2.01 IN 27.35

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1200	3.98	822	5-04	1830	6.47	2,000
5-02	0100	4.30	950	5-16	1800	4.54	1,050

01021500 Machias River at Whitneyville, Maine

LOCATION.--Lat 44°43'23", long 67°31'15", Washington County, on right bank 800 ft downstream from highway bridge at Whitneyville.

DRAINAGE AREA.--457 sq mi.

PERIOD OF RECORD.--October 1905 to September 1921, September 1929 to current year. Monthly discharge only for some periods published in WSP 1301. Records for October 1903 to September 1905, published in WSP 97, 124, 165, and 241, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 37.22 ft above mean sea level. Oct. 1, 1905 to Sept. 30, 1921, nonrecording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--59 years, 921 cfs (27.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,920 cfs May 5 (gage height, 10.86 ft); minimum, 50 cfs Nov. 21 (gage height, 2.70 ft).

Period of record: Maximum discharge, 14,800 cfs May 29, 1961 (gage height, 16.92 ft); minimum daily, 3.5 cfs Oct. 12, 1939, when flow was held back by cofferdam during reconstruction of highway bridge upstream.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by sawmill above station.

REVISIONS (WATER YEARS).--WSP 971: Drainage area. WSP 1231: 1907-15, 1916-21 (M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	192	659	325	313	305	1,330	2,940	751	809	449	333
2	184	191	1,020	320	288	305	1,480	3,360	1,600	1,150	430	361
3	176	188	757	450	257	300	1,770	3,320	2,210	1,120	425	306
4	172	185	512	570	300	300	1,920	5,120	1,760	966	436	1,840
5	172	176	410	515	376	300	1,930	6,670	1,480	729	604	3,590
6	169	183	341	450	389	305	1,840	5,540	1,340	647	573	2,880
7	169	195	332	415	343	315	1,680	4,910	1,220	662	491	2,050
8	169	250	350	400	295	350	1,580	4,550	938	600	457	1,450
9	168	367	341	385	258	580	1,340	4,190	909	565	444	796
10	185	339	342	380	238	752	1,250	3,790	1,420	540	388	525
11	1,180	300	422	721	222	716	1,280	3,390	2,680	529	445	620
12	1,700	277	691	789	210	614	1,410	3,070	2,730	527	477	565
13	844	290	797	750	204	556	1,640	2,830	2,110	521	477	510
14	582	282	694	891	558	493	1,870	2,580	1,650	527	528	460
15	471	260	571	1,060	1,360	449	2,020	2,760	1,420	554	526	425
16	243	248	505	917	1,300	424	1,930	4,150	1,210	546	547	395
17	265	245	484	811	918	441	2,010	4,080	1,050	504	559	375
18	252	479	387	503	633	1,180	2,260	3,540	1,180	465	243	360
19	227	739	328	446	470	2,760	2,810	3,060	1,160	616	243	345
20	220	488	293	446	420	2,950	2,880	2,610	1,080	608	184	330
21	214	202	285	420	400	2,730	2,610	2,590	1,090	582	226	315
22	212	103	317	378	375	2,500	2,320	2,720	1,210	591	212	310
23	207	113	321	384	360	3,190	2,400	2,450	963	569	220	300
24	205	133	276	453	350	4,760	2,430	2,080	1,780	532	292	290
25	206	150	588	589	330	4,380	2,660	1,780	2,310	498	298	285
26	211	1,430	762	1,820	325	3,440	2,830	1,380	2,280	486	377	275
27	209	2,110	685	992	315	2,720	2,710	1,220	2,210	484	367	270
28	206	1,350	561	642	315	2,190	2,420	1,280	1,860	480	353	265
29	202	789	425	485	310	1,780	2,310	1,270	1,480	473	337	260
30	200	849	375	394	------	1,480	2,450	1,240	1,090	465	291	310
31	196	------	340	352	------	1,390	------	1,190	------	460	274	------
TOTAL	10,002	13,103	15,171	18,453	12,432	44,955	61,370	95,660	46,171	18,805	12,173	21,396
MEAN	323	437	489	595	429	1,450	2,046	3,086	1,539	607	393	713
MAX	1,700	2,110	1,020	1,820	1,360	4,760	2,880	6,670	2,730	1,150	604	3,590
MIN	168	103	276	320	204	300	1,250	1,190	751	460	184	260
CFSM	.71	.96	1.07	1.30	.94	3.17	4.48	6.75	3.37	1.33	.86	1.56
IN.	.81	1.07	1.23	1.50	1.01	3.66	5.00	7.79	3.76	1.53	.99	1.74

CAL YR 1971 TOTAL 289,926 MEAN 794 MAX 4,350 MIN 103 CFSM 1.74 IN 23.60
WTR YR 1972 TOTAL 369,691 MEAN 1,010 MAX 6,670 MIN 103 CFSM 2.21 IN 30.09

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-24	1000	9.00	4,910	5-16	0900	8.50	4,460
5-05	0400	10.86	6,920	9-05	1200	7.69	3,730

01022500 Narraguagus River at Cherryfield, Maine

LOCATION.--Lat 44°36'29", long 67°56'10", Washington County, on left bank 800 ft upstream from railroad bridge at Cherryfield, and 0.7 mile downstream from West Branch of Narraguagus River.

DRAINAGE AREA.--232 sq mi.

PERIOD OF RECORD.--February 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 44.2 ft above mean sea level. Prior to July 1, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 477 cfs (27.92 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,340 cfs Mar. 24 (gage height, 14.53 ft); minimum, 66 cfs Nov. 16 (gage height, 7.40 ft).
Period of record: Maximum discharge, 10,400 cfs May 28, 1961 (gage height, 17.40 ft); minimum, 20 cfs Sept. 22, 23, 1965.

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1948 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	79	592	160	212	165	877	1,390	440	532	135	85
2	84	80	445	180	186	165	1,180	1,600	912	537	130	78
3	79	82	366	275	166	160	1,430	1,800	1,060	447	122	91
4	75	93	317	350	314	160	1,450	3,020	972	388	224	1,490
5	74	101	254	250	396	160	1,240	3,480	821	340	314	2,040
6	77	98	218	210	255	160	1,050	2,820	676	305	223	1,480
7	133	104	257	180	216	170	898	2,210	563	275	181	902
8	139	161	253	170	184	255	725	1,890	533	254	168	570
9	114	157	234	165	164	560	639	1,690	538	239	153	466
10	137	139	246	375	152	530	622	1,440	1,020	223	170	568
11	609	128	377	440	140	480	738	1,210	1,510	231	196	492
12	536	121	551	500	129	425	910	1,050	1,370	231	163	405
13	407	114	506	473	131	370	1,030	943	1,080	217	141	346
14	316	106	433	735	1,300	335	1,160	880	807	255	126	303
15	262	94	382	620	1,210	310	1,180	974	636	250	113	281
16	226	93	345	504	710	300	1,170	1,750	549	225	104	250
17	195	93	285	424	495	325	1,300	1,780	558	220	97	225
18	170	87	230	368	352	2,000	1,560	1,600	525	219	93	206
19	154	85	175	326	305	3,270	1,890	1,340	470	219	105	191
20	138	99	150	304	250	2,520	1,850	1,120	427	216	114	179
21	129	115	155	279	230	2,080	1,570	1,130	397	202	113	167
22	116	118	160	285	220	1,570	1,420	1,080	387	193	106	160
23	104	117	145	280	205	3,340	1,490	923	464	177	101	151
24	97	104	200	335	155	4,490	1,410	791	498	162	95	140
25	91	116	475	540	165	2,880	1,580	679	538	150	90	134
26	91	1,360	375	780	180	2,050	1,610	592	660	148	85	132
27	91	1,160	270	466	170	1,500	1,480	531	695	146	79	136
28	90	817	200	380	170	1,180	1,300	488	567	138	97	134
29	89	539	180	320	170	1,010	1,200	454	476	136	118	129
30	85	556	170	275	------	991	1,210	423	418	139	109	339
31	80	------	160	240	------	936	------	399	------	138	95	------
TOTAL	5,077	7,166	9,106	11,189	9,022	34,847	37,169	41,477	20,567	7,552	4,160	12,270
MEAN	164	239	294	361	311	1,124	1,239	1,338	686	244	134	409
MAX	609	1,360	592	780	1,300	4,490	1,890	3,480	1,510	537	314	2,040
MIN	74	79	145	160	129	160	622	399	387	136	79	78
CFSM	.71	1.03	1.27	1.55	1.34	4.84	5.34	5.77	2.96	1.05	.58	1.76
IN.	.81	1.15	1.46	1.79	1.45	5.59	5.96	6.65	3.30	1.21	.67	1.97

CAL YR 1971 TOTAL 148,929 MEAN 408 MAX 2,650 MIN 50 CFSM 1.76 IN 23.88
WTR YR 1972 TOTAL 199,602 MEAN 545 MAX 4,490 MIN 74 CFSM 2.35 IN 32.01

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	2400	13.18	3,640	5-04	2400	13.20	3,660
3-24	0100	14.53	5,340	9-04	2400	11.79	2,220

01023000 West Branch Union River at Amherst, Maine

LOCATION.--Lat 44°50'25", long 68°22'22", Hancock County, on right bank 200 ft upstream from site of old tannery dam, 0.6 mile upstream from Indian Camp Brook, and 0.7 mile northwest of Amherst.

DRAINAGE AREA.--148 sq mi.

PERIOD OF RECORD.--July 1909 to September 1919, July 1929 to current year. Published as Union River at Amherst, October 1910 to September 1913.

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (from topographic map). July 1909 to September 1919, nonrecording gage at highway bridge 1 mile downstream at different datum.

AVERAGE DISCHARGE.--53 years, 261 cfs (23.95 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,000 cfs Mar. 19; maximum gage height, 7.58 ft Mar. 18 (backwater from ice); minimum discharge, 28 cfs Oct. 6 (gage height, 3.29 ft).
Period of record: Maximum discharge, 4,140 cfs Apr. 13, 1940 (gage height, 9.58 ft); maximum gage height, 10.41 ft Mar. 9, 1942 (ice jam); minimum discharge, 2.6 cfs July 28, 1965 (gage height, 2.75 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: 1935. WSP 821: Drainage area. WSP 1231: 1912-15, 1916-19 (M). WSP 1301: 1901-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	47	190	105	50	125	473	1,120	373	245	137	31
2	37	46	257	100	48	125	501	1,180	614	230	128	30
3	35	48	236	110	46	120	556	1,210	609	205	116	32
4	31	51	150	130	55	120	601	1,680	596	201	128	223
5	29	50	115	155	88	120	576	1,730	588	199	113	270
6	29	48	96	145	85	120	539	1,670	548	203	105	301
7	38	53	99	130	77	125	509	1,620	519	191	99	283
8	36	73	93	120	69	150	464	1,540	508	170	94	243
9	34	73	88	110	61	200	428	1,420	480	151	89	216
10	45	71	92	130	55	185	409	1,290	541	133	85	199
11	153	71	120	230	51	170	412	1,150	685	146	76	165
12	154	71	154	220	49	160	429	1,020	634	140	70	146
13	164	69	172	205	47	150	459	884	591	137	67	129
14	159	65	185	255	270	145	522	774	548	138	65	120
15	149	60	170	280	350	140	534	732	507	133	59	111
16	134	57	145	210	315	140	553	794	479	124	54	100
17	121	54	120	160	270	150	587	890	461	121	49	90
18	106	50	100	125	230	250	671	854	404	153	49	84
19	95	48	87	105	205	1,900	805	814	347	142	60	78
20	84	53	79	110	185	1,870	886	759	308	134	54	71
21	79	56	74	100	170	1,780	830	766	277	128	49	63
22	73	57	70	88	160	1,570	806	729	254	124	46	60
23	70	58	78	82	150	1,500	855	656	265	113	43	56
24	65	54	95	120	145	1,420	899	589	282	102	42	51
25	61	54	140	230	140	1,190	1,010	531	317	92	40	48
26	59	115	200	300	135	776	1,040	471	323	88	37	46
27	59	128	185	185	130	639	1,020	415	303	83	35	46
28	56	136	160	125	130	572	986	377	308	78	40	44
29	55	140	140	85	130	532	969	340	299	110	39	40
30	53	159	120	63	------	506	1,010	295	243	143	36	53
31	50	------	110	54	------	486	------	269	------	141	34	------
TOTAL	2,357	2,115	4,120	4,567	3,896	17,436	20,339	28,569	13,215	4,498	2,138	3,429
MEAN	76.0	70.5	133	147	134	562	678	922	441	145	69.0	114
MAX	164	159	257	300	350	1,900	1,040	1,730	685	245	137	301
MIN	29	46	70	54	46	120	409	269	243	78	34	30
CFSM	.51	.48	.90	.99	.91	3.80	4.58	6.23	2.98	.98	.47	.77
IN.	.59	.53	1.04	1.15	.98	4.38	5.11	7.18	3.32	1.13	.54	.86

CAL YR 1971 TOTAL 82,054 MEAN 225 MAX 1,390 MIN 11 CFSM 1.52 IN 20.62
WTR YR 1972 TOTAL 106,679 MEAN 291 MAX 1,900 MIN 29 CFSM 1.97 IN 26.81

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-19	----	----	2,000	5-04	1600	7.02	1,790

01024200 Garland Brook near Mariaville, Maine

LOCATION.--Lat 44°43'17", long 68°24'40", Hancock County, on left bank 22 ft upstream from State Highway 181, 1.2 miles upstream from mouth, and 1.5 miles north of Mariaville.

DRAINAGE AREA.--9.80 sq mi.

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder and culvert control. Altitude of gage is 125 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 19.5 cfs (27.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 319 cfs Mar. 23 (gage height, 7.53 ft); minimum, 1.2 cfs Sept. 2 (gage height, 2.64 ft).

Period of record: Maximum discharge, 1,230 cfs Dec. 27, 1969 (gage height, 13.47 ft); minimum, 0.24 cfs Sept. 22-25, 1965.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	3.4	24	6.8	6.8	6.6	29	113	18	21	3.2	1.5
2	5.6	3.4	17	7.1	6.4	6.5	49	105	37	18	2.7	1.4
3	5.4	3.5	12	13	6.2	6.4	64	116	48	12	2.7	2.4
4	5.3	4.2	8.6	16	13	6.4	81	259	42	10	23	126
5	5.2	4.5	6.5	12	18	6.3	63	158	36	9.2	11	58
6	5.7	4.3	4.5	10	11	6.3	47	106	30	7.7	6.0	30
7	6.6	4.2	5.1	8.6	7.4	6.2	37	94	25	6.9	4.0	15
8	6.8	6.8	5.6	7.5	5.6	10	30	78	22	6.1	3.7	9.5
9	5.9	6.2	5.6	7.5	4.8	21	27	64	22	5.3	3.4	12
10	8.0	5.4	6.6	13	4.3	18	27	54	60	4.6	4.2	23
11	27	4.9	14	15	4.2	16	34	48	72	7.2	3.6	12
12	14	4.6	24	16	4.0	14	46	44	56	6.5	2.7	9.5
13	8.5	4.3	20	14	4.5	13	60	39	45	4.9	2.4	8.2
14	6.4	4.1	15	30	55	12	69	37	34	4.8	2.2	7.2
15	5.5	3.9	11	33	50	11	63	51	27	4.9	1.9	7.0
16	5.1	3.9	11	23	30	11	59	92	23	4.2	1.8	5.9
17	4.8	3.7	10	14	20	13	69	105	24	4.2	1.6	4.8
18	4.6	3.6	8.2	10	15	23	93	68	23	4.3	3.0	4.4
19	4.4	3.5	6.6	9.8	12	52	117	52	20	3.5	6.5	4.1
20	4.3	4.0	5.6	10	10	42	112	43	19	3.8	3.9	4.0
21	4.1	4.5	6.5	9.8	9.2	36	79	52	18	3.5	2.6	3.6
22	4.0	4.7	6.8	8.8	8.7	32	72	43	17	3.7	2.2	3.3
23	3.9	4.5	5.3	9.2	8.2	204	86	34	16	3.2	1.8	3.1
24	3.8	4.1	9.8	12	7.7	216	91	28	20	2.8	1.6	3.0
25	3.7	15	25	22	7.4	122	112	24	23	2.5	1.6	2.9
26	3.6	51	20	34	7.1	84	105	21	20	2.7	1.6	3.0
27	4.0	33	14	26	6.9	57	89	19	18	2.8	1.5	3.1
28	3.8	23	10	12	6.8	43	84	18	14	2.4	3.3	3.3
29	3.7	20	8.1	9.0	6.7	35	85	17	24	2.3	3.3	3.0
30	3.6	23	7.3	7.8	------	35	97	17	17	7.6	2.2	8.2
31	3.5	------	6.7	7.2	------	34	------	16	------	4.7	1.9	------
TOTAL	186.7	269.1	340.4	434.1	356.9	1,198.7	2,076	2,015	870	197.3	117.1	382.4
MEAN	6.02	8.97	11.0	14.0	12.3	38.7	69.2	65.0	29.0	6.04	3.78	12.7
MAX	27	51	25	34	55	216	117	259	72	21	23	126
MIN	3.5	3.4	4.5	6.8	4.0	6.2	27	16	14	2.3	1.5	1.4
CFSM	.61	.92	1.12	1.43	1.26	3.95	7.06	6.63	2.96	.62	.39	1.30
IN.	.71	1.02	1.29	1.65	1.35	4.55	7.88	7.65	3.30	.71	.44	1.45

CAL YR 1971 TOTAL 6,117.06 MEAN 16.8 MAX 183 MIN .71 CFSM 1.71 IN 23.22
WTR YR 1972 TOTAL 8,433.70 MEAN 23.0 MAX 259 MIN 1.4 CFSM 2.35 IN 32.01

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-23	1745	7.53	319	9-04	0900	6.28	188
5-04	1200	7.35	300				

01029500 East Branch Penobscot River at Grindstone, Maine

LOCATION.--Lat 45°43'49", long 68°35'22", Penobscot County, on left bank 500 ft downstream from Bangor & Aroostook Railroad bridge, 0.5 mile south of Grindstone, and 9.5 miles upstream from confluence with West Branch Penobscot River.

DRAINAGE AREA.--1,090 sq mi, (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

PERIOD OF RECORD.--October 1902 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 294.74 ft above mean sea level. Prior to June 30, 1929, nonrecording gage on railroad bridge at same datum.

AVERAGE DISCHARGE.--70 years, 1,904 cfs (23.72 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 12,900 cfs May 8 (gage height, 10.38 ft); minimum daily, 398 cfs Dec. 1.

Period of record: Maximum discharge, 37,000 cfs Apr. 30, 1923 (gage height, 16.9 ft, site then in use, present datum); minimum daily (1914-70), 77 cfs Nov. 19, 1924.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Chamberlain, Telos, Second and Grand Lakes, and Round Pond (see sta 01028500 and sta 01029000, page 50). Final regulation at Grand Lake Dam 35 miles upstream. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS.--WSP 501: Drainage area. WSP 1301: 1907-12, 1914-29 (M). WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	889	877	398	840	690	570	1,780	6,060	2,700	1,880	3,060	1,650
2	878	857	479	840	685	570	1,730	7,330	6,800	1,820	2,310	1,620
3	856	845	470	840	675	570	1,680	6,940	7,660	1,660	2,140	1,630
4	843	858	518	835	670	565	1,640	8,140	6,360	2,740	2,420	4,590
5	834	857	589	830	665	565	1,600	9,400	6,990	3,630	2,400	6,680
6	828	834	685	830	660	570	1,540	9,980	6,900	3,550	2,160	3,520
7	857	839	805	825	660	580	1,460	10,700	6,350	3,230	1,770	2,060
8	867	1,130	880	825	695	630	1,390	12,600	6,250	2,900	1,550	1,660
9	838	1,130	875	825	690	680	1,330	12,000	4,970	2,190	1,430	2,650
10	860	967	875	820	670	710	1,300	11,100	3,750	1,910	1,280	3,050
11	1,910	905	870	820	650	700	1,270	10,200	5,760	2,040	1,230	2,920
12	1,650	778	870	815	640	670	1,270	8,840	6,530	2,010	1,200	2,810
13	1,080	824	870	815	625	650	1,280	7,630	5,730	1,720	1,710	2,700
14	829	805	865	815	610	630	1,300	7,330	4,590	1,490	1,790	2,030
15	775	736	865	810	605	615	1,340	8,530	3,720	1,340	1,720	1,750
16	734	785	860	810	600	610	1,400	10,500	2,810	1,140	1,650	1,690
17	676	733	860	805	595	1,000	1,500	10,100	2,460	1,350	1,870	1,650
18	629	726	860	800	585	1,500	1,600	10,600	2,240	1,900	1,960	1,610
19	886	719	860	795	580	2,300	1,700	10,800	2,060	2,050	2,390	1,570
20	1,010	727	860	785	585	3,450	1,950	9,930	1,900	2,190	2,170	1,540
21	993	722	860	780	590	3,700	2,300	9,890	1,800	2,170	2,170	1,520
22	970	703	860	775	600	3,650	2,750	9,380	1,850	2,310	2,140	1,490
23	953	625	855	765	600	3,400	3,200	7,830	3,840	2,280	2,070	1,460
24	927	595	855	760	595	3,150	3,600	6,520	3,850	2,030	2,010	1,420
25	911	540	855	750	590	2,900	3,930	5,180	4,070	1,520	1,940	1,400
26	985	410	850	745	580	2,700	3,940	4,530	3,980	3,710	1,880	1,390
27	1,110	550	850	735	580	2,500	3,830	3,220	3,500	8,220	1,840	1,480
28	1,040	529	850	725	575	2,300	3,690	2,700	3,140	7,320	1,810	1,480
29	985	514	845	715	575	2,100	3,820	2,600	2,530	6,110	1,780	1,420
30	937	427	845	705	------	2,000	4,410	2,400	2,080	5,760	1,720	1,440
31	898	------	840	700	------	1,870	------	2,000	------	4,720	1,680	------
TOTAL	29,438	22,547	24,579	24,535	18,120	48,405	65,530	244,960	127,170	88,890	59,250	63,880
MEAN	950	752	793	791	625	1,561	2,184	7,902	4,239	2,867	1,911	2,129
MAX	1,910	1,130	880	840	695	3,700	4,410	12,600	7,660	8,220	3,060	6,680
MIN	629	410	398	700	575	565	1,270	2,000	1,800	1,140	1,200	1,390
MEAN*	758	512	551	379	394	1,533	2,427	9,918	4,306	2,867	1,373	1,341
CFSM*	.70	.47	.51	.35	.36	1.41	2.23	9.10	3.95	2.63	1.26	1.23
IN. *	.80	.52	.58	.40	.39	1.63	2.49	10.49	4.41	3.03	1.45	1.37

CAL YR 1971 TOTAL 652,948 MEAN 1,789 MAX 17,500 MIN 322 MEAN* 1,696 CFSM* 1.56 IN* 21.12
WTR YR 1972 TOTAL 817,304 MEAN 2,233 MAX 12,600 MIN 398 MEAN* 2,207 CFSM* 2.02 IN* 27.56

*Adjusted for change in contents in Chamberlain, Telos, Second, and Grand Lakes, and Round Pond.

01030000 Penobscot River near Mattawamkeag, Maine

LOCATION.--Lat 45°34'01", long 68°24'10", Penobscot County, on left bank 700 ft downstream from Mattaseunk Dam and powerhouse, 1.3 miles upstream from Mattaseunk Brook, and 4.5 miles upstream from Mattawamkeag.

DRAINAGE AREA.--3,356 sq mi, (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

PERIOD OF RECORD.--June 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 191.72 ft above mean sea level.

AVERAGE DISCHARGE.--32 years, 5,582 cfs (22.59 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 23,400 cfs May 8 (gage height, 8.47 ft); minimum daily, 2,600 cfs Dec. 2.

Period of record: Maximum discharge, 43,300 cfs May 29, 1961 (gage height, 13.12 ft, backwater from Mattawamkeag River); minimum daily, 1,430 cfs Aug. 17, 1941.

REMARKS.--Records good. Flow regulated by many reservoirs above station (see p. 50).

REVISIONS.--WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,300	3,650	2,800	3,100	2,830	3,300	5,200	12,900	5,960	6,700	9,600	5,450
2	3,500	3,700	2,600	3,130	2,920	3,550	5,200	14,700	12,200	6,100	7,400	5,100
3	3,750	3,700	2,820	3,880	2,830	3,600	5,200	13,700	14,200	5,600	6,000	4,500
4	4,200	3,500	2,850	3,430	2,720	3,800	5,250	16,200	12,000	5,400	6,300	7,400
5	5,000	3,800	3,500	3,080	3,130	3,700	5,500	17,400	12,200	9,200	6,300	12,000
6	3,650	3,500	3,300	2,980	3,320	3,600	5,700	17,900	12,200	8,000	6,000	9,100
7	3,600	3,650	3,700	2,930	2,780	3,800	6,000	18,400	11,500	8,200	5,700	6,800
8	3,600	4,000	3,350	2,880	3,020	3,600	5,800	20,700	11,500	8,400	5,300	6,400
9	3,100	3,800	3,200	2,830	2,930	3,000	5,800	19,200	10,400	8,300	5,100	6,600
10	3,900	3,550	2,900	2,830	2,920	3,900	5,800	17,800	10,500	7,300	5,100	7,150
11	4,500	3,150	3,200	2,930	2,930	3,700	5,800	16,200	14,300	7,500	5,000	7,150
12	4,300	3,550	3,200	2,980	2,920	3,700	5,800	14,500	15,900	7,700	5,100	6,800
13	3,500	3,900	3,400	2,980	2,950	3,500	5,800	12,300	15,000	7,300	5,900	6,500
14	3,400	3,800	3,500	3,000	3,120	3,200	6,050	11,600	13,400	6,500	5,750	6,200
15	3,250	3,600	3,400	3,100	3,380	3,300	6,300	13,600	11,900	5,400	5,650	5,400
16	3,750	3,600	3,400	3,180	3,420	3,400	6,700	16,000	9,420	5,600	5,600	5,200
17	3,500	3,550	3,250	2,930	3,330	4,100	7,420	16,200	7,100	5,200	5,550	5,150
18	3,550	3,400	3,150	2,780	3,320	5,000	7,000	16,100	6,900	5,900	5,950	5,100
19	6,000	3,250	3,250	3,280	3,330	5,800	8,010	16,200	6,650	6,250	6,400	5,050
20	4,250	3,450	3,000	2,980	3,470	5,800	8,180	15,100	6,200	6,400	6,250	4,900
21	3,400	3,550	3,060	2,680	3,230	6,400	8,100	14,400	5,950	6,400	6,000	4,700
22	2,650	3,650	3,100	2,680	3,370	6,100	8,500	13,900	6,200	6,550	5,800	4,900
23	2,650	3,600	3,150	2,930	3,380	6,050	9,180	12,000	8,500	6,350	5,700	4,850
24	3,700	3,200	3,300	3,080	3,320	5,800	9,370	10,200	8,600	6,000	5,600	4,750
25	4,000	3,400	3,200	2,980	3,580	5,600	9,410	8,620	9,200	5,600	5,550	4,100
26	3,700	3,250	3,300	2,980	3,320	5,500	9,880	7,500	9,400	9,000	5,600	7,000
27	4,200	2,700	2,850	3,180	3,630	5,200	9,260	7,220	9,100	17,300	5,650	5,600
28	3,950	3,200	3,050	2,980	3,320	4,900	9,410	6,380	8,600	16,900	5,700	3,800
29	3,750	3,100	3,300	3,180	3,030	4,800	9,410	5,940	8,000	15,500	5,750	3,600
30	3,600	3,000	3,020	2,830	------	5,100	10,400	5,610	7,300	14,000	5,750	4,200
31	3,600	------	3,000	2,880	------	5,250	------	5,100	------	12,000	5,550	------
TOTAL	116,800	104,750	98,100	93,590	91,750	138,050	215,430	413,570	300,280	252,550	182,600	175,450
MEAN	3,768	3,492	3,165	3,019	3,164	4,453	7,181	13,340	10,010	8,147	5,890	5,848
MAX	6,000	4,000	3,700	3,880	3,630	6,400	10,400	20,700	15,900	17,300	9,600	12,000
MIN	2,650	2,700	2,600	2,680	2,720	3,000	5,200	5,100	5,950	5,200	5,000	3,600
MEAN*	2,082	1,583	1,311	950	896	2,380	7,226	32,670	11,410	8,409	3,236	2,821
CFSM*	.62	.47	.39	.28	.27	.71	2.15	9.73	3.40	2.51	.96	.84
IN. *	.71	.53	.45	.33	.29	.82	2.40	11.22	3.79	2.89	1.11	.94

CAL YR 1971 TOTAL 1,915,190 MEAN 5,247 MAX 29,900 MIN 2,600 MEAN* 4,826 CFSM* 1.44 IN* 19.53
WTR YR 1972 TOTAL 2,182,920 MEAN 5,964 MAX 20,700 MIN 2,600 MEAN* 6,286 CFSM* 1.87 IN* 25.48

*Adjusted for change in contents in reservoirs in East and West Branches of Penobscot River.

01030500 Mattawamkeag River near Mattawamkeag, Maine

LOCATION.--Lat 45°30'18", long 68°18'07", Penobscot County, on right bank at Gordon Lower Falls, 1.0 mile upstream from Mattakeunk Stream, 3.7 miles upstream from Mattawamkeag, and 4.1 miles upstream from mouth.

DRAINAGE AREA.--1,418 sq mi.

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (from topographic map).

AVERAGE DISCHARGE.--38 years, 2,411 cfs (23.09 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,800 cfs May 9 (gage height, 11.33 ft); minimum, 158 cfs Oct. 6-9 (gage height, 0.32 ft).

Period of reccrd: Maximum discharge, 29,200 cfs Mar. 23, 1936 (gage height, 15.34 ft); minimum, 38 cfs Sept. 19, 1952.

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS.--WSP 1501: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	442	812	990	525	445	2,450	9,970	2,340	1,900	2,000	277
2	197	428	765	950	520	435	2,350	11,500	4,640	1,740	1,740	256
3	185	422	720	910	515	430	2,250	12,600	6,550	1,590	1,490	244
4	172	429	690	880	510	425	2,200	14,100	7,460	1,600	1,390	755
5	164	441	665	850	510	420	2,180	16,100	7,640	1,810	1,340	2,400
6	161	450	645	830	515	415	2,100	17,400	7,440	2,000	1,240	3,090
7	159	468	630	810	520	410	1,980	18,000	7,000	1,910	1,100	3,080
8	158	632	615	800	535	410	1,840	18,500	6,370	1,660	971	2,710
9	160	900	604	780	540	425	1,800	18,600	5,640	1,410	887	2,270
10	171	1,030	591	770	535	435	1,760	18,200	5,120	1,220	948	1,900
11	284	981	592	760	525	440	1,730	17,300	5,490	1,140	920	1,560
12	634	874	620	755	515	440	1,720	16,000	6,250	1,120	808	1,310
13	977	780	730	750	500	435	1,700	14,400	6,660	1,110	710	1,120
14	1,030	670	880	765	490	425	1,700	12,900	6,390	1,040	612	1,000
15	918	591	955	795	490	430	1,720	11,800	5,620	922	530	872
16	812	542	940	840	485	660	1,750	11,500	4,730	825	458	774
17	730	517	900	860	480	1,000	1,880	11,900	4,010	790	390	700
18	656	472	850	850	485	1,350	2,000	12,100	3,440	774	348	641
19	592	443	810	820	500	1,700	2,300	11,900	2,930	761	358	569
20	521	438	760	780	505	2,200	2,600	11,300	2,500	763	368	519
21	477	441	730	750	505	3,000	3,150	10,400	2,170	723	370	469
22	442	441	710	710	490	3,800	4,200	9,200	1,960	693	370	445
23	401	413	700	680	480	4,300	6,600	7,900	2,090	643	361	402
24	363	360	710	650	475	4,380	8,700	6,660	2,320	629	347	361
25	340	373	740	630	470	4,280	9,400	5,490	2,690	632	336	339
26	363	393	780	620	460	3,950	9,400	4,470	2,950	1,240	318	325
27	465	543	850	620	455	3,600	9,300	3,730	2,950	2,510	296	337
28	518	697	920	615	450	3,300	9,110	3,180	2,710	2,910	290	345
29	533	799	990	585	450	3,000	8,990	2,740	2,400	2,810	294	339
30	518	838	1,030	560	------	2,800	9,090	2,370	2,120	2,580	300	364
31	477	------	1,020	535	------	2,570	------	2,070	------	2,270	293	------
TOTAL	13,792	17,248	23,954	23,500	14,435	52,310	117,950	344,280	132,580	43,725	22,183	29,773
MEAN	445	575	773	758	498	1,687	3,932	11,110	4,419	1,410	716	992
MAX	1,030	1,030	1,030	990	540	4,380	9,400	18,600	7,640	2,910	2,000	3,090
MIN	158	360	591	535	450	410	1,700	2,070	1,960	629	290	244
CFSM	.31	.41	.55	.53	.35	1.19	2.77	7.84	3.12	.99	.50	.70
IN.	.36	.45	.63	.62	.38	1.37	3.09	9.03	3.48	1.15	.58	.78

CAL YR 1971 TOTAL 816,854 MEAN 2,238 MAX 18,900 MIN 59 CFSM 1.58 IN 21.43
WTR YR 1972 TOTAL 835,730 MEAN 2,283 MAX 18,600 MIN 158 CFSM 1.61 IN 21.92

01031500 Piscataquis River near Dover-Foxcroft, Maine

LOCATION.--Lat 45°10'31", long 69°18'55", Piscataquis County, on left bank 30 ft downstream from Lows Bridge, 1.0 mile upstream from Black Stream and 4.7 miles upstream from Dover-Foxcroft.

DRAINAGE AREA.--297 sq mi.

PERIOD OF RECORD.--August 1902 to current year.

GAGE.--Water-stage recorder. Datum of gage is 358.1 ft above mean sea level. Prior to July 20, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--70 years, 591 cfs (27.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,950 cfs May 8 (gage height, 9.03 ft); minimum 31 cfs Oct. 6 (gage height, 1.68 ft).

Period of record: Maximum discharge, 22,800 cfs Nov. 4, 1966 (gage height, 17.89 ft); minimum, 5 cfs Aug. 6, 1905, Nov. 22, 1908.

REMARKS.--Records excellent except those for winter period, which are fair. Low flow may be regulated by operation of mills above station. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 279: 1902. WSP 1171: Drainage area. WSP 1201: 1903-17, 1918-30 (M), 1934-35. WSP 1301: 1909 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	111	150	120	110	130	410	4,740	1,520	402	317	74
2	38	102	160	115	110	130	470	5,640	4,500	366	277	68
3	37	111	140	110	105	125	540	4,260	2,820	334	245	70
4	34	134	130	110	120	120	650	5,430	1,700	1,040	281	2,030
5	33	156	115	110	130	125	720	5,130	1,360	786	245	1,440
6	33	139	110	105	140	130	700	4,740	972	542	203	765
7	33	165	110	105	145	140	650	5,540	779	406	177	470
8	34	531	115	110	140	150	610	6,050	942	356	171	330
9	35	366	110	110	130	155	570	4,730	849	325	174	309
10	43	293	110	110	120	155	560	3,850	1,480	289	285	289
11	505	289	130	110	115	155	570	3,310	2,550	849	238	223
12	435	245	160	115	110	150	610	2,970	1,650	835	174	177
13	265	216	200	120	115	150	680	2,790	1,080	581	144	153
14	193	183	180	130	140	140	780	3,060	814	440	131	144
15	150	162	160	135	225	135	810	4,140	654	370	106	139
16	123	156	150	140	360	145	830	4,860	575	317	97	125
17	104	150	145	135	370	180	950	3,970	504	553	87	118
18	95	147	140	130	325	450	1,200	3,390	420	668	95	108
19	81	144	135	125	295	1,300	1,700	3,170	352	548	168	99
20	77	147	130	120	265	1,170	2,400	2,530	313	814	177	91
21	77	147	125	120	235	990	2,100	2,080	293	661	131	85
22	77	144	120	115	215	850	1,960	1,750	277	599	111	79
23	75	113	120	115	200	740	2,160	1,370	420	440	99	72
24	72	87	120	115	180	660	2,140	1,080	492	330	89	67
25	68	91	120	120	170	600	2,670	863	700	281	83	65
26	97	113	130	130	160	545	2,630	694	720	629	83	63
27	231	123	130	150	150	500	2,360	553	642	700	95	63
28	199	150	130	140	145	460	2,040	450	593	520	106	62
29	168	147	125	130	140	440	2,460	388	635	575	128	60
30	147	139	125	120	------	420	3,290	321	482	504	102	68
31	125	------	120	120	------	410	------	289	------	397	81	------
TOTAL	3,722	5,201	4,145	3,740	5,165	11,950	40,220	94,138	31,088	16,457	4,900	7,906
MEAN	120	173	134	121	178	385	1,341	3,037	1,036	531	158	264
MAX	505	531	200	150	370	1,300	3,290	6,050	4,500	1,040	317	2,030
MIN	33	87	110	105	105	120	410	289	277	281	81	60
CFSM	.40	.58	.45	.41	.60	1.30	4.52	10.2	3.49	1.79	.53	.89
IN.	.47	.65	.52	.47	.65	1.50	5.04	11.79	3.89	2.06	.61	[illegible]

CAL YR 1971 TOTAL 191,007 MEAN 523 MAX 11,900 MIN 30 CFSM 1.76 IN 23.92
WTR YR 1972 TOTAL 228,632 MEAN 625 MAX 6,050 MIN 33 CFSM 2.10 IN 28.64

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-02	0400	8.69	6,480	5-16	0400	7.79	5,290
5-08	0400	9.03	6,950	6-02	1400	7.73	5,210

01031600 Morrison Brook near Sebec Corners, Maine

LOCATION.--Lat 45°14'17", long 69°03'06", Piscataquis County, on left bank 60 ft upstream from culvert in State Highway 16, 2.4 miles east of Sebec Corners, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--4.37 sq mi.

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 408.41 ft above mean sea level.

AVERAGE DISCHARGE.--8 years (1965-72), 7.25 cfs (22.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 93 cfs May 1 (gage height, 3.78 ft); minimum, 0.27 cfs Oct. 5, 6 (gage height, 1.90 ft).

Period of record: Maximum discharge, 575 cfs Nov. 3, 1966 (gage height, 8.95 ft); minimum, 0.06 cfs Aug. 7, 8, 1965 (gage height, 1.91 ft).

REMARKS.--Records good except those for winter period, and period of no gage-height record, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.60	2.2	1.2	1.6	1.4	6.0	75	35	4.5	2.7	1.2
2	.29	.67	2.0	1.2	1.6	1.4	6.7	64	58	4.3	2.4	1.1
3	.29	.83	1.7	1.2	1.6	1.4	7.5	53	39	4.5	2.1	1.4
4	.29	.98	1.6	1.2	1.8	1.4	9.0	67	28	8.8	2.3	35
5	.27	.89	1.5	1.2	2.3	1.4	10	55	18	8.3	2.0	25
6	.30	.80	1.4	1.2	1.9	1.4	9.7	43	15	6.5	1.8	13
7	.66	1.2	1.3	1.2	1.6	1.4	9.1	45	14	5.3	1.6	7.3
8	.44	1.6	1.3	1.2	1.4	1.7	8.6	47	15	4.7	1.5	5.4
9	.38	1.4	1.2	1.2	1.3	2.0	8.2	45	16	4.3	1.6	5.2
10	1.3	1.5	1.2	1.2	1.2	1.9	8.0	42	18	3.7	2.1	4.9
11	3.3	1.1	1.4	1.2	1.2	1.8	8.5	38	32	5.0	1.8	4.3
12	2.6	1.0	2.0	1.2	1.2	1.7	9.4	35	28	4.7	1.5	3.8
13	1.8	.93	2.0	1.3	1.1	1.6	11	33	15	4.1	1.3	3.2
14	1.5	1.0	1.8	1.4	1.8	1.6	14	34	9.6	3.8	1.2	3.2
15	1.3	.94	1.7	1.6	2.8	1.5	14	38	7.9	3.5	1.1	3.0
16	1.2	1.0	1.6	1.6	4.0	1.5	14	47	7.3	3.1	1.0	2.8
17	.98	.96	1.6	1.6	3.1	3.5	16	43	7.3	2.8	.90	2.6
18	.87	.80	1.5	1.5	2.5	18	25	37	6.4	2.4	1.0	2.4
19	.77	.76	1.5	1.4	2.2	16	42	36	5.5	2.9	1.5	2.0
20	.80	.76	1.5	1.3	2.0	14	40	30	5.0	3.3	1.6	1.9
21	.78	.76	1.4	1.3	1.9	12	38	25	4.7	3.1	1.4	1.6
22	.76	.76	1.4	1.2	1.8	11	35	20	4.4	3.1	1.3	1.8
23	.72	.76	1.4	1.2	1.7	9.5	38	17	4.7	2.7	1.2	1.6
24	.67	.78	1.5	1.2	1.6	8.6	39	14	5.8	2.3	1.2	1.5
25	.64	.98	1.7	1.3	1.5	7.8	49	12	7.5	2.2	1.2	1.5
26	.84	2.3	1.6	1.4	1.5	7.1	43	9.5	8.6	4.8	1.1	1.5
27	.83	2.1	1.5	1.7	1.5	6.6	36	8.0	7.3	5.8	1.0	1.8
28	.78	2.0	1.4	2.0	1.5	6.3	33	6.8	6.2	4.6	2.1	1.6
29	.72	1.9	1.3	1.9	1.4	6.1	41	6.0	5.3	5.2	2.0	1.4
30	.68	2.6	1.2	1.8	------	6.0	47	5.6	4.8	4.1	1.6	2.6
31	.63	------	1.2	1.7	------	5.9	------	5.4	------	3.3	1.4	------
TOTAL	27.72	34.66	47.6	42.8	52.6	163.5	675.7	1,036.3	439.3	131.7	48.50	145.6
MEAN	.89	1.16	1.54	1.38	1.81	5.27	22.5	33.4	14.6	4.25	1.56	4.85
MAX	3.3	2.6	2.2	2.0	4.0	18	49	75	58	8.8	2.7	35
MIN	.27	.60	1.2	1.2	1.1	1.4	6.0	5.4	4.4	2.2	.90	1.1
CFSM	.20	.27	.35	.32	.41	1.21	5.15	7.64	3.34	.97	.36	1.11
IN.	.24	.30	.41	.36	.45	1.39	5.75	8.82	3.74	1.12	.41	1.24

CAL YR 1971 TOTAL 2,338.01 MEAN 6.41 MAX 78 MIN .11 CFSM 1.47 IN 19.90
WTR YR 1972 TOTAL 2,845.98 MEAN 7.78 MAX 75 MIN .27 CFSM 1.78 IN 24.23

PEAK DISCHARGE (BASE, 70 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-01	2000	3.78	93				

Note.--No gage-height record May 8 to June 9.

01033000 Sebec River at Sebec, Maine

LOCATION.--Lat 45°16'12", long 69°06'44", Piscataquis County, on right bank, 1,000 ft downstream from highway bridge and dam at outlet of Sebec Lake at Sebec.

DRAINAGE AREA.--327 sq mi.

PERIOD OF RECORD.--October 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 296.3 ft above mean sea level. Prior to June 22, 1942, at site on opposite bank 60 ft downstream at same datum.

AVERAGE DISCHARGE.--48 years, 615 cfs (25.54 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,170 cfs May 8 (gage height, 7.99 ft); minimum daily, 108 cfs May 31.

Period of record: Maximum discharge, 11,400 cfs Mar. 20, 1936 (gage height, 14.46 ft), from rating curve extended above 6,000 cfs on basis of velocity-area studies; minimum, about 2 cfs Oct. 14-17, 1930 (gage height, 0.87 ft), when gates in dam were closed.

REMARKS.--Records excellent. Flow regulated by Sebec Lake (see p. 50) and other reservoirs above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area, 1936 (M). WSP 1301: 1925.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	767	151	149	180	146	230	652	2,290	120	616	443	156
2	702	155	149	179	141	232	635	2,710	168	608	442	154
3	585	163	186	184	138	239	668	2,960	478	375	435	159
4	494	160	205	179	155	240	700	3,300	1,490	186	435	184
5	420	153	194	182	158	240	741	3,590	1,940	194	429	191
6	364	171	185	178	152	247	762	3,740	1,880	322	421	199
7	344	227	189	175	150	238	787	3,900	1,780	344	332	202
8	301	248	185	175	148	243	766	4,110	1,710	211	255	402
9	254	250	182	167	146	245	746	4,070	1,660	218	201	816
10	243	247	183	165	141	239	720	3,870	1,660	223	172	802
11	311	253	188	164	139	232	713	3,640	1,740	282	170	783
12	333	246	191	162	135	230	740	3,410	1,750	551	169	775
13	301	233	201	160	131	226	790	3,170	1,680	879	165	765
14	279	225	203	163	149	222	879	2,980	1,630	960	165	758
15	267	218	205	161	156	218	935	2,960	1,590	939	165	350
16	248	210	221	161	172	217	990	3,170	796	928	162	155
17	235	200	219	158	183	234	1,030	3,250	190	605	163	152
18	217	200	215	157	193	316	1,090	3,190	196	205	164	149
19	206	197	210	157	207	442	1,240	3,090	199	288	168	153
20	198	199	207	154	232	587	1,430	2,930	204	349	165	156
21	185	191	205	158	230	698	1,550	2,750	210	616	165	156
22	175	195	203	155	239	781	1,610	2,540	487	796	165	154
23	165	186	193	153	235	879	1,670	2,340	658	786	162	152
24	156	169	191	153	237	907	1,720	2,140	659	776	162	151
25	164	166	192	159	237	894	1,800	1,970	668	771	162	152
26	172	166	184	160	239	859	1,870	1,300	863	772	162	277
27	175	146	180	156	242	817	1,900	403	970	766	162	370
28	179	146	186	155	235	779	1,900	406	952	572	164	363
29	169	146	181	155	230	730	1,920	404	939	448	163	361
30	163	147	180	152	------	697	2,020	606	749	449	162	362
31	161	------	184	152	------	673	------	108	------	446	160	------
TOTAL	8,933	5,764	5,946	5,069	5,296	14,031	34,974	81,297	30,016	16,481	7,010	9,959
MEAN	288	192	192	164	183	453	1,166	2,622	1,001	532	226	332
MAX	767	253	221	184	242	907	2,020	4,110	1,940	960	443	816
MIN	156	146	149	152	131	217	635	108	120	186	160	149
MEAN*	105	297	90	164	183	453	1,693	2,569	1,203	488	215	264
CFSM*	.32	.91	.28	.50	.56	1.39	5.18	7.86	3.68	1.49	.66	.81
IN. *	.37	1.01	.32	.58	.60	1.60	5.78	9.06	4.11	1.72	.76	.90

CAL YR 1971 TOTAL 209,756 MEAN 575 MAX 5,210 MIN 119 MEAN* 532 CFSM* 1.63 IN* 22.06
WTR YR 1972 TOTAL 224,776 MEAN 614 MAX 4,110 MIN 108 MEAN* 644 CFSM* 1.97 IN* 26.81

*Adjusted for change in contents in Sebec Lake.

01033500 Pleasant River near Milo, Maine

LOCATION.--Lat 45°16'58", long 69°00'13", Piscataquis County, on left bank 2.5 miles northeast of Milo, and 7.9 miles upstream from mouth.

DRAINAGE AREA.--324 sq mi.

PERIOD OF RECORD.--June 1920 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 302 ft (from river-profile map). Prior to June 17, 1929, nonrecording gage at Snows Bridge, 2.2 miles downstream at datum 32 ft lower.

AVERAGE DISCHARGE.--52 years, 692 cfs (29.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,300 cfs May 8 (gage height, 6.99 ft); minimum, 77 cfs Oct. 5-7 (gage height, 1.59 ft).

Period of record: Maximum discharge, 28,600 cfs Nov. 4, 1966 (gage height, 15.46 ft); minimum, 15 cfs Aug. 17, 1944 (gage height, 1.21 ft).

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow may be slightly regulated by small storage dams above station. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1921-22 (M), 1924-27 (M), 1929 (M). WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	247	200	130	130	140	550	3,530	1,200	534	375	135
2	90	280	185	130	130	135	590	4,470	5,400	496	325	124
3	85	251	175	125	130	130	625	3,340	4,940	458	295	123
4	82	446	165	120	135	125	670	4,140	2,710	857	310	2,080
5	77	670	160	120	150	130	685	4,360	2,030	807	270	2,620
6	77	476	160	120	165	135	680	3,960	1,520	632	235	1,520
7	88	373	160	115	160	150	660	4,620	1,250	508	205	976
8	153	324	165	115	150	160	635	5,320	1,280	433	195	700
9	151	277	160	115	140	165	615	4,460	1,180	400	200	594
10	141	270	205	120	135	165	605	3,650	1,390	365	300	510
11	946	260	215	120	130	160	610	3,070	2,560	651	240	418
12	1,190	240	220	125	130	160	640	2,710	2,000	738	195	355
13	769	225	210	130	135	160	685	2,540	1,450	550	160	307
14	502	215	200	130	145	155	750	2,640	1,120	479	140	288
15	378	210	190	135	170	155	760	4,240	937	428	125	270
16	314	205	185	140	400	155	830	6,920	831	377	110	248
17	268	200	175	140	420	165	970	5,330	756	423	105	230
18	230	200	170	135	365	425	1,200	4,280	658	665	115	220
19	206	209	160	135	310	1,230	1,380	3,970	570	623	180	211
20	192	227	150	130	275	1,180	1,510	3,390	502	749	190	201
21	182	229	145	130	250	1,030	1,430	2,890	464	628	155	190
22	175	217	140	130	230	930	1,360	2,670	448	644	130	182
23	167	200	135	130	210	850	1,560	2,210	605	528	115	172
24	186	190	140	130	195	775	1,550	1,830	815	410	100	161
25	374	175	150	130	180	730	1,680	1,500	1,130	357	96	155
26	356	170	150	135	170	680	1,760	1,220	1,180	551	100	155
27	302	170	145	140	160	650	1,580	1,030	1,040	720	110	171
28	258	180	145	140	155	610	1,430	908	842	595	130	174
29	221	195	140	135	150	595	1,700	818	699	620	190	166
30	197	210	140	135	------	575	2,270	729	589	530	168	193
31	204	------	135	130	------	565	------	647	------	450	149	------
TOTAL	8,657	7,740	5,175	3,995	5,605	13,370	31,970	97,392	42,096	17,206	5,713	13,849
MEAN	279	258	167	129	193	431	1,066	3,142	1,403	555	184	462
MAX	1,190	670	220	140	420	1,230	2,270	6,920	5,400	857	375	2,620
MIN	77	170	135	115	130	125	550	647	448	357	96	123
CFSM	.86	.80	.52	.40	.60	1.33	3.29	9.70	4.33	1.71	.57	1.43
IN.	.99	.89	.59	.46	.64	1.54	3.67	11.18	4.83	1.98	.66	1.59

CAL YR 1971 TOTAL 212,155 MEAN 581 MAX 10,400 MIN 59 CFSM 1.79 IN 24.36
WTR YR 1972 TOTAL 252,768 MEAN 691 MAX 6,920 MIN 77 CFSM 2.13 IN 29.02

PEAK DISCHARGE (BASE, 3,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-08	0600	6.21	5,600	6-02	1900	6.88	7,060
5-16	0900	6.99	7,300				

Note.--No gage-height record July 27 to Aug. 29.

01034000 Piscataquis River at Medford, Maine

LOCATION.--Lat 45°15'40", long 68°52'07", Piscataquis County, on left bank 2.0 miles southwest of Medord, and 3.3 miles downstream from Pleasant River.

DRAINAGE AREA.--1,161 sq mi.

PERIOD OF RECORD.--June 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 248.68 ft above mean sea level. Prior to Aug. 14, 1929, nonrecording gage at site 1.8 miles downstream at different datum.

AVERAGE DISCHARGE.--48 years, 2,287 cfs (26.75 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 18,900 cfs May 8 (gage height, 8.72 ft); minimum, 335 cfs Oct. 26 (gage height, 1.82 ft).

Period of record: Maximum discharge, 60,100 cfs Nov. 4, 1966 (gage height, 15.58 ft); minimum, 99 cfs Oct. 28, 1947 (gage height, 1.28 ft).

Maximum stage known 20.8 ft May 1, 1923, former site and datum.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Sebec Lake 15 miles upstream (see p. 50) and other small reservoirs and powerplants above station.

REVISIONS (WATER YEARS).--WSP 1171: Drainage area. WSP 1231: 1936. WSP 1301: 1925-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	949	536	580	480	465	540	2,310	13,000	2,160	1,740	1,530	461
2	893	471	565	475	460	530	2,300	16,300	10,500	1,640	1,370	425
3	799	469	550	470	460	525	2,400	14,000	11,300	1,630	1,270	421
4	690	547	530	460	470	525	2,500	16,200	7,130	2,610	1,250	4,500
5	606	651	520	455	490	530	2,500	16,700	6,260	2,240	1,230	6,530
6	537	678	510	450	525	535	2,400	15,900	5,260	1,750	1,140	3,700
7	530	664	505	445	520	545	2,250	16,400	4,380	1,520	1,040	2,400
8	552	1,720	500	440	510	560	2,140	18,400	4,270	1,400	882	1,760
9	494	2,630	495	435	500	570	2,070	16,600	4,120	1,330	816	1,890
10	479	1,930	490	435	485	580	2,030	14,100	4,910	1,300	983	1,900
11	1,430	1,510	500	435	475	575	2,020	12,000	8,530	2,700	987	1,710
12	2,250	1,390	560	440	470	565	2,040	10,700	7,190	2,800	809	1,560
13	1,630	1,230	650	450	470	550	2,150	9,830	5,090	2,200	705	1,430
14	1,180	1,050	750	460	520	545	2,370	9,520	3,990	1,800	621	1,370
15	1,010	820	720	480	700	540	2,650	11,200	3,510	1,600	565	1,240
16	871	704	670	500	1,030	540	2,800	16,100	2,750	1,450	536	784
17	771	663	620	510	1,300	900	3,000	14,800	1,850	2,400	501	656
18	699	624	590	505	1,200	2,000	3,500	12,300	1,570	2,800	498	609
19	632	621	550	490	990	3,600	4,400	11,500	1,380	2,400	688	580
20	589	621	530	475	850	4,400	6,100	10,200	1,230	3,100	867	557
21	530	635	515	465	770	4,100	7,150	8,700	1,160	2,750	801	530
22	480	632	510	455	700	3,750	6,930	7,790	1,310	2,350	671	511
23	424	598	505	450	650	3,500	7,390	6,660	1,850	2,050	596	486
24	388	501	495	450	610	3,200	7,450	5,610	2,350	1,650	549	459
25	356	494	490	455	575	3,000	8,500	4,780	2,870	1,400	516	445
26	367	505	515	465	565	2,850	8,900	4,050	3,080	2,500	469	445
27	703	525	525	475	555	2,700	8,240	2,530	2,920	2,900	447	626
28	963	550	520	490	550	2,550	7,370	1,990	2,570	2,460	526	684
29	937	570	510	480	545	2,450	7,920	1,810	2,410	1,870	571	671
30	770	585	505	470	------	2,380	9,650	1,770	2,060	1,830	555	740
31	628	------	490	465	------	2,330	------	1,480	------	1,740	509	------
TOTAL	24,137	25,124	16,965	14,410	18,410	52,465	133,430	322,920	119,960	63,910	24,498	40,080
MEAN	779	837	547	465	635	1,692	4,448	10,420	3,999	2,062	790	1,336
MAX	2,250	2,630	750	510	1,300	4,400	9,650	18,400	11,300	3,100	1,530	6,530
MIN	356	469	490	435	460	525	2,020	1,480	1,160	1,300	447	421
MEAN*	596	942	445	465	635	1,692	4,975	10,370	4,201	2,018	779	1,268
CFSM*	.51	.81	.38	.40	.55	1.46	4.29	8.93	3.62	1.74	.67	1.09
IN. *	.59	.90	.44	.46	.59	1.68	4.79	10.30	4.04	2.01	.77	1.22

CAL YR 1971 TOTAL 735,608 MEAN 2,015 MAX 31,700 MIN 238 MEAN* 1,972 CFSM* 1.70 IN* 23.05
WTR YR 1972 TOTAL 856,309 MEAN 2,340 MAX 18,400 MIN 356 MEAN* 2,370 CFSM* 2.04 IN* 27.79

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-08	1400	8.72	18,900	6-02	2300	7.64	14,100
5-16	1600	8.26	16,800				

*Adjusted for change in contents in Sebec Lake.

01034500 Penobscot River at West Enfield, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, on left bank 30 ft downstream from highway bridge, 1,000 ft downstream from Piscataquis River, and at West Enfield.

DRAINAGE AREA.--6,670 sq mi, (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

PERIOD OF RECORD.--November 1901 to current year.

GAGE.--Water-stage recorder. Datum of gage is 125.94 ft above mean sea level. Prior to Dec. 11, 1912, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--70 years (1902-72), 11,590 cfs (23.60 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 64,900 cfs May 8 (gage height, 14.62 ft); minimum daily, 3,950 cfs Dec. 2.

Period of record: Maximum discharge, 153,000 cfs May 1, 1923 (gage height, 25.15 ft), from rating curve extended above 88,000 cfs; minimum, 1,630 cfs Oct. 29, 1905 (gage height, 1.0 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by many reservoirs above station (see p. 50). Records of chemical analyses and water temperatures for the water year 1972 are published in Part 2 of this report.

COOPERATION.--Supplemental water-stage recorder graph furnished by Bangor Hydro-Electric Company.

REVISIONS (WATER YEARS).--WSP 279: 1902-10. WSP 1171: 1940. WSP 1231: 1902-13. WSP 2101: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,220	5,140	4,550	4,800	4,400	5,250	14,000	39,600	10,100	11,800	16,100	7,180
2	5,090	5,180	3,950	4,700	4,250	5,200	14,100	47,200	27,000	10,700	12,800	6,710
3	5,070	5,200	4,000	4,950	4,200	5,200	14,500	47,300	39,000	10,300	10,500	6,660
4	5,270	5,200	4,100	5,250	4,150	5,150	15,000	51,400	32,500	9,730	9,920	10,100
5	5,310	5,160	4,150	5,200	4,150	5,100	16,000	57,800	28,900	11,800	10,400	24,300
6	5,500	5,310	4,250	5,100	4,250	5,100	16,500	58,300	27,600	13,400	9,860	21,200
7	5,200	5,340	4,500	4,950	4,450	5,050	16,800	58,300	25,500	12,400	9,250	16,500
8	4,890	5,570	4,800	4,750	4,650	5,050	16,700	62,600	23,700	11,700	8,350	12,700
9	4,890	6,860	5,200	4,600	4,700	5,050	16,200	61,700	22,700	11,400	8,170	11,800
10	4,870	6,740	4,950	4,550	4,750	5,100	15,600	55,900	22,300	11,300	8,090	12,100
11	5,490	6,030	4,900	4,550	4,750	5,500	15,200	51,100	31,200	10,800	8,210	11,800
12	8,660	5,730	5,050	4,600	4,600	5,750	14,900	46,200	34,600	11,200	8,050	11,200
13	8,110	5,910	5,250	4,600	4,500	5,950	14,800	42,100	31,300	11,700	7,450	10,000
14	7,010	5,770	5,400	4,750	4,600	5,850	15,400	38,200	27,500	10,800	7,860	9,680
15	6,510	5,750	5,550	5,000	4,850	5,700	16,100	38,200	23,500	9,750	7,580	8,760
16	6,100	5,400	5,500	5,400	5,100	5,600	16,800	45,600	20,400	9,190	7,310	8,040
17	5,930	5,140	5,300	5,800	5,350	6,150	17,300	47,700	15,100	9,020	7,410	7,740
18	5,730	5,070	5,150	5,650	5,550	7,500	19,000	44,500	13,800	8,770	7,200	7,560
19	5,680	5,000	5,000	5,400	5,650	10,500	21,600	43,500	12,500	9,050	7,890	7,310
20	7,640	4,720	4,850	5,250	5,600	13,000	24,500	40,800	11,200	9,620	8,090	6,880
21	5,970	4,720	4,650	5,200	5,600	15,000	25,500	37,300	10,600	9,940	8,360	6,770
22	5,200	4,760	4,550	5,100	5,500	16,500	25,800	34,700	10,000	9,870	8,010	6,450
23	4,230	5,200	4,500	4,850	5,450	16,300	27,400	31,600	11,200	9,820	7,670	6,730
24	4,400	4,700	4,550	4,700	5,450	16,000	28,400	25,600	14,400	9,420	7,380	6,620
25	4,630	4,480	4,800	4,750	5,400	15,500	30,700	21,200	15,500	8,950	7,480	6,570
26	5,380	4,300	5,000	4,750	5,400	15,300	32,000	18,200	17,200	9,640	7,080	5,840
27	5,500	4,400	5,250	4,750	5,350	15,100	31,800	14,900	17,300	21,700	7,100	7,930
28	6,030	4,600	5,400	4,800	5,350	14,800	30,400	13,100	15,200	25,700	7,180	6,600
29	5,770	4,950	5,250	4,800	5,300	14,300	30,400	11,200	14,600	22,600	7,730	5,100
30	5,520	5,150	5,100	4,650	------	14,000	33,300	10,100	12,800	20,200	7,470	5,320
31	5,380	------	4,950	4,550	------	14,000	------	9,530	------	19,400	7,390	------
TOTAL	176,180	157,480	150,400	152,750	143,300	289,550	626,700	1,205.4M	619,200	381,670	263,340	282,150
MEAN	5,683	5,249	4,852	4,927	4,941	9,340	20,890	38,880	20,640	12,310	8,495	9,405
MAX	8,660	6,860	5,550	5,800	5,650	16,500	33,300	62,600	39,000	25,700	16,100	24,300
MIN	4,230	4,300	3,950	4,550	4,150	5,050	14,000	9,530	10,000	8,770	7,080	5,100
MEAN*	3,815	3,445	2,896	2,858	2,673	7,267	21,460	58,160	22,240	12,530	5,830	6,310
CFSM*	.57	.52	.43	.43	.40	1.09	3.22	8.72	3.33	1.86	.87	.95
IN. *	.66	.58	.50	.49	.43	1.26	3.59	10.05	3.72	2.17	1.01	1.06

CAL YR 1971 TOTAL 3,994,260 MEAN 10,940 MAX 82,300 MIN 3,340 MEAN* 10,480 CFSM* 1.57 IN* 21.32

WTR YR 1972 TOTAL 4,448,150 MEAN 12,150 MAX 62,600 MIN 3,950 MEAN* 12,500 CFSM* 1.87 IN* 25.52

M Expressed in thousands.

* Adjusted for change in contents in East and West Branches of Penobscot River, also Sebec Lake in Piscataquis River basin.

01035000 Passadumkeag River at Lowell, Maine

LOCATION.--Lat 45°11'04", long 68°28'29", Penobscot County, on right bank at Lowell, 0.5 mile downstream from dam and highway bridge and 11 miles upstream from mouth.

DRAINAGE AREA.--299 sq mi.

PERIOD OF RECORD.--October 1915 to current year.

GAGE.--Water-stage recorder. Datum of gage is 151.3 ft above mean sea level. Oct. 1, 1915, to Sept. 30, 1917, nonrecording gage at same site and datum. Oct. 1, 1917, to Nov. 30, 1921, nonrecording gage at site on left bank 400 ft downstream from highway bridge at different datum.

AVERAGE DISCHARGE.--57 years, 494 cfs (22.44 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,480 cfs May 8 (gage height, 5.62 ft); minimum daily, 74 cfs Oct. 5-7.

Period of record: Maximum discharge, 5,680 cfs May 2, 1923 (gage height, 9.40 ft); minimum, about 5 cfs several times in July and August 1921 (gates in dam closed).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS.--WSP 821: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	91	212	150	170	195	601	1,550	1,020	721	356	146
2	79	91	200	155	170	195	618	1,670	1,440	676	331	140
3	76	92	190	165	170	195	662	1,750	1,520	636	308	138
4	75	94	180	175	175	195	712	2,080	1,580	615	298	244
5	74	96	170	185	180	200	740	2,310	1,640	595	288	386
6	74	98	160	195	185	205	737	2,390	1,640	568	269	496
7	74	106	150	205	185	210	727	2,430	1,580	516	250	530
8	75	124	140	210	180	215	690	2,480	1,520	458	235	514
9	80	143	135	205	180	225	649	2,460	1,440	403	222	479
10	130	154	130	200	180	225	623	2,400	1,420	364	213	429
11	200	155	135	200	180	230	619	2,320	1,580	354	201	373
12	240	149	150	190	180	225	637	2,220	1,580	355	192	325
13	260	141	170	190	180	220	680	2,110	1,530	346	183	285
14	270	132	190	190	185	220	758	2,010	1,470	335	176	257
15	250	123	200	205	190	220	809	1,920	1,390	325	168	233
16	210	114	200	245	200	220	846	1,890	1,300	309	160	215
17	180	108	195	295	215	230	888	1,910	1,230	301	154	202
18	160	103	190	315	210	260	969	1,890	1,140	299	150	191
19	145	99	185	300	210	330	1,090	1,860	1,040	316	157	181
20	131	101	180	275	210	475	1,200	1,810	942	354	163	170
21	122	104	175	250	205	600	1,230	1,770	854	362	164	160
22	115	106	170	230	205	750	1,240	1,710	785	346	160	153
23	110	107	170	210	200	820	1,270	1,640	761	320	156	148
24	105	123	165	200	200	800	1,300	1,550	767	294	152	143
25	101	106	165	190	200	760	1,360	1,460	811	285	149	139
26	101	127	160	180	200	730	1,410	1,370	846	311	147	137
27	100	159	160	175	200	700	1,430	1,270	859	321	148	139
28	99	191	160	170	200	662	1,430	1,180	849	341	155	137
29	99	207	155	170	200	635	1,420	1,080	818	351	156	136
30	97	217	155	170	------	623	1,450	986	769	365	155	147
31	95	------	155	170	------	609	------	899	------	371	151	------
TOTAL	4,008	3,761	5,252	6,365	5,545	12,379	28,795	56,375	36,121	12,513	6,167	7,373
MEAN	129	125	169	205	191	399	960	1,819	1,204	404	199	246
MAX	270	217	212	315	215	820	1,450	2,480	1,640	721	356	530
MIN	74	91	130	150	170	195	601	899	761	285	147	136
CFSM	.43	.42	.57	.69	.64	1.33	3.21	6.08	4.03	1.35	.67	.82
IN.	.50	.47	.65	.79	.69	1.54	3.58	7.01	4.49	1.56	.77	.92

CAL YR 1971 TOTAL 150,871 MEAN 413 MAX 2,100 MIN 73 CFSM 1.38 IN 18.77
WTR YR 1972 TOTAL 184,654 MEAN 505 MAX 2,480 MIN 74 CFSM 1.69 IN 22.97

01036500 Kenduskeag Stream near Kenduskeag, Maine

LOCATION.--Lat 44°53'48", long 68°53'04", Penobscot County, on right bank 300 ft upstream from highway bridge, 1.8 miles downstream from Black Stream, and 2.9 miles south of Kenduskeag.

DRAINAGE AREA.--178 sq mi.

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 91.94 ft above mean sea level.

AVERAGE DISCHARGE.--31 years, 312 cfs (23.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,750 cfs Apr. 20 (gage height, 8.30 ft); maximum gage height, 9.04 ft Mar. 25 (backwater from ice); minimum daily discharge, 5.7 cfs Oct. 9.

Period of record: Maximum discharge, 6,400 cfs Sept. 12, 1954 (gage height, 14.83 ft); minimum daily, 1.0 cfs Sept. 30, 1948, Aug. 8, 1965.

REMARKS.--Records fair. An artificial cut has been made through a low divide between Souadabscook Stream and Black Stream which enters Kenduskeag Stream 1.8 miles above station. During high stages of Souadabscook Stream part of its flow passes through the cut into Kenduskeag Stream; at low stages of Souadabscook Stream all flow continues down its own channel. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	17	30	47	64	105	460	1,720	465	191	44	11
2	7.4	17	30	46	62	98	495	1,780	1,900	171	32	9.4
3	6.7	18	27	45	60	97	580	1,650	1,800	140	26	9.4
4	6.4	20	25	43	62	97	700	2,390	1,200	177	33	310
5	6.0	23	22	42	67	99	900	2,600	908	204	35	798
6	6.4	24	20	42	75	100	1,250	2,070	675	157	32	545
7	6.7	25	21	41	84	105	1,600	1,620	498	113	27	333
8	6.0	33	20	40	81	110	1,150	1,360	429	84	26	207
9	5.7	39	20	41	75	120	920	1,120	383	67	22	145
10	7.1	35	22	41	71	130	830	881	796	57	23	136
11	43	32	26	43	68	135	840	715	2,160	80	22	118
12	97	28	32	46	66	135	985	607	1,680	106	22	92
13	68	26	45	52	71	125	1,260	517	1,110	87	19	71
14	51	23	50	55	95	120	1,400	439	723	70	17	61
15	43	21	46	95	175	110	1,480	393	513	60	15	57
16	37	21	42	94	280	110	1,400	509	399	57	14	51
17	30	20	39	89	315	130	1,500	643	390	55	13	42
18	26	18	36	83	275	350	1,800	599	332	76	14	36
19	22	18	35	79	230	1,300	2,360	506	261	69	16	32
20	20	20	33	74	205	2,200	2,710	404	201	61	22	27
21	19	22	32	70	190	2,100	2,450	350	166	61	21	23
22	18	23	31	68	170	1,900	2,160	327	144	54	16	22
23	17	23	31	66	155	1,650	2,180	271	180	47	13	21
24	16	20	30	65	145	1,400	2,040	214	204	38	12	19
25	16	20	33	67	130	1,150	2,210	166	250	32	12	19
26	16	22	50	73	120	950	2,240	134	325	34	11	19
27	16	25	56	80	115	780	1,980	114	315	52	10	19
28	17	27	56	76	110	660	1,660	99	283	68	12	19
29	19	26	54	73	110	540	1,540	86	263	57	12	19
30	18	28	52	69	------	495	1,580	73	226	61	14	26
31	17	------	50	66	------	470	------	64	------	60	13	------
TOTAL	692.7	714	1,096	1,911	3,726	17,871	44,660	24,421	19,179	2,646	620	3,296.8
MEAN	22.3	23.8	35.4	61.6	128	576	1,489	788	639	85.4	20.0	110
MAX	97	39	56	95	315	2,200	2,710	2,600	2,160	204	44	798
MIN	5.7	17	20	40	60	97	460	64	144	32	10	9.4
CFSM	.13	.13	.20	.35	.72	3.24	8.37	4.43	3.59	.48	.11	.62
IN.	.14	.15	.23	.40	.78	3.73	9.33	5.10	4.01	.55	.13	.69

CAL YR 1971 TOTAL 84,051.3 MEAN 230 MAX 2,780 MIN 4.7 CFSM 1.29 IN 17.57
WTR YR 1972 TOTAL 120,833.5 MEAN 330 MAX 2,710 MIN 5.7 CFSM 1.85 IN 25.25

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-20	----	----	2,500	5-05	0100	8.29	2,740
4-07	----	----	1,700	6-02	1900	7.02	2,110
4-20	1200	8.30	2,750	6-11	1200	7.38	2,290

Reservoirs in Penobscot River basin

01027000 **CHESUNCOOK, RIPOGENUS, AND CARIBOU LAKES AND MOOSE POND** in West Branch Penobscot River basin are controlled by Ripogenus Dam, in T. 3, R. 11, Piscataquis County, Maine, 36 miles upstream from Millinocket and 42 miles northeast of Greenville, present dam completed in 1917, used for power; usable capacity of reservoir, 30,000,000,000 cu ft. Records furnished by Great Northern Paper Co.

01027000 **AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES** in West Branch Penobscot River basin are controlled by North Twin Dam, Penobscot County, 3 miles upstream from Millinocket, Maine, used for power; usable capacity of reservoir 15,000,000,000 cu ft. Records furnished by Great Northern Paper Co.

01028500 **CHAMBERLAIN AND TELOS LAKES AND ROUND POND** in East Branch Penobscot River basin are controlled by dams in outlets of Chamberlain and Telos Lakes, although regulation is at Telos Dam, in T. 6, R. 11, Piscataquis County, Maine. Telos Dam rebuilt during 1941, used for power; usable capacity, 5,040,000,000 cu ft between gage height 2.0 and 11.0 ft. Records furnished by Bangor Hydro-Electric Co.

01029000 **SECOND AND GRAND LAKES** in East Branch Penobscot River basin are controlled by dam rebuilt in 1942 at outlet of Grand Lake, in T. 6, R. 8, Penobscot County, Maine, used for power; usable capacity, 1,785,000,000 cu ft between elevations 643.0 and 655.0 ft. Records furnished by Bangor Hydro-Electric Co.

01032500 **SEBEC LAKE** on Sebec River, Piscataquis County, at Sebec, Maine, used for power; usable capacity 2,511,000,000 cu ft between elevations 316.1 and 325.1 ft. Records furnished by Bangor Hydro-Electric Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	CHESUNCOOK, RIPOGENUS CARIBOU, AMBAJEJUS, PEMADUMCOOK, NORTH TWIN, SOUTH TWIN, AND ELBOW LAKES AND MOOSE POND*	CHAMBERLAIN, TELOS, SECOND, AND GRAND LAKES AND ROUND POND	SEBEC LAKE
SEPT. 30, 1971	35,181	3,684	930
OCT. 31	31,182	3,169	441
NOV. 30	26,857	2,546	713
DEC. 31	22,538	1,899	441
JAN. 31, 1972	18,100	795	441
FEB. 29	12,996	215	441
MAR. 31	7,519	141	441
APR. 30	7,006	770	1,808
MAY 31	53,374	6,169	1,665
JUNE 30	56,837	6,343	2,189
JULY 31	57,538	6,343	2,072
AUG. 31	51,870	4,903	2,042
SEPT. 30	46,066	2,861	1,866

* Includes monthend contents of following additional reservoirs in West Branch Penobscot River basin, used for power (total capacity approximately 12,000,000,000 cu ft); Penobscot, Seboomook, Caucomgomoc, Loon, Shallow, Umbazooksus, Harrington, Sourdnahunk, Rainbow, Ragged, and Millinocket Lakes, Canada Falls Reservoir, Dole, and Poland Ponds.

01038000 Sheepscot River at North Whitefield, Maine

LOCATION.--Lat 44°13'23", long 69°35'38", Lincoln County, on left bank at North Whitefield, 50 ft upstream from highway bridge, and 0.6 mile downstream from Pleasant Pond Brook.

DRAINAGE AREA.--148 sq mi.

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 101.1 ft above mean sea level.

AVERAGE DISCHARGE.--34 years, 236 cfs (21.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,170 cfs Mar. 23 (gage height, 8.39 ft); minimum, 12 cfs Oct. 6 (gage height, 1.87 ft).

Period of record: Maximum discharge, 5,260 cfs Apr. 13, 1940 (gage height, 11.81 ft, backwater from fish weir), from rating curve extended above 1,900 cfs; minimum, 5.0 cfs Oct. 24, 1941 (gage height, 1.70 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flow by sawmill at North Whitefield. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	67	33	43	107	714	574	546	244	74	21
2	14	17	50	33	41	108	775	583	1,060	215	66	20
3	14	18	40	34	39	120	997	707	726	188	60	27
4	14	20	35	35	42	125	1,110	1,140	664	188	63	176
5	13	21	31	36	52	122	1,100	1,070	732	158	59	123
6	13	19	30	36	50	122	1,010	980	647	142	52	74
7	14	19	30	35	46	115	875	890	617	126	50	59
8	14	20	30	34	43	139	750	810	630	116	48	53
9	15	20	30	33	40	193	664	714	570	109	47	56
10	28	18	35	32	38	200	600	626	710	98	51	66
11	118	16	57	32	37	190	583	540	825	98	50	60
12	70	15	80	33	36	183	574	477	660	95	45	55
13	47	16	67	34	36	175	587	420	600	87	41	52
14	39	16	59	36	269	175	656	375	565	90	39	51
15	34	15	52	40	231	178	692	382	510	90	37	52
16	32	14	48	49	209	178	710	466	462	85	33	50
17	30	14	45	60	183	288	800	458	439	79	31	47
18	28	14	42	58	171	1,100	855	388	375	74	32	45
19	28	14	39	55	161	1,150	945	347	318	69	37	42
20	26	15	36	52	150	1,110	1,000	322	293	68	36	41
21	25	17	34	50	140	1,100	935	338	252	71	31	39
22	25	17	33	48	130	1,060	890	315	225	82	29	38
23	24	17	33	47	125	2,540	850	281	218	69	30	37
24	23	15	35	47	120	2,850	820	258	205	59	27	36
25	23	17	39	54	115	2,250	800	228	202	56	25	34
26	24	21	38	75	110	1,970	765	205	193	63	24	33
27	24	22	37	105	110	1,470	718	182	186	60	24	38
28	24	23	36	72	110	1,190	669	166	349	63	29	36
29	22	23	35	59	107	1,020	626	150	690	79	30	36
30	20	60	34	53	------	915	591	136	298	111	26	48
31	19	------	33	47	------	780	------	124	------	90	23	------
TOTAL	859	571	1,290	1,447	2,983	23,123	23,661	14,652	14,767	3,222	1,249	1,545
MEAN	27.7	19.0	41.6	46.7	103	746	789	473	492	104	40.3	51.5
MAX	118	60	80	105	269	2,850	1,110	1,140	1,060	244	74	176
MIN	13	14	30	32	36	107	574	124	186	56	23	20
CFSM	.19	.13	.28	.32	.70	5.04	5.33	3.20	3.32	.70	.27	.35
IN.	.22	.14	.32	.36	.75	5.81	5.95	3.68	3.71	.81	.31	.39

CAL YR 1971 TOTAL 72,889 MEAN 200 MAX 1,360 MIN 13 CFSM 1.35 IN 18.32
WTR YR 1972 TOTAL 99,369 MEAN 244 MAX 2,850 MIN 13 CFSM 1.65 IN 22.46

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	2030	5.51	1,310	5-04	1500	5.32	1,190
3-23	2300	8.39	3,170	6-02	0500	5.46	1,280
4-04	2000	5.24	1,140				

01040500 Moosehead Lake at East Outlet, Maine

LOCATION.--Lat 45°35'07", long 69°42'48", Piscataquis County, on left bank at wharf at east outlet of lake at Moosehead.

DRAINAGE AREA.--1,266 sq mi.

PERIOD OF RECORD.--March 1895 to current year.

GAGE.--Nonrecording gage read daily at 0700. Datum of gage is 1,011.48 ft above mean sea level.

EXTREMES.--Current year: Maximum gage height observed, 17.73 ft July 18; minimum observed, 11.55 ft Apr. 25.26.
Period of record: Maximum gage height, 18.0 ft May 30, 1902; minimum, 10.0 ft or lower, present datum Mar. 20-29, 1911.

REMARKS.--Lake is controlled by dams at East and West Outlets originally built prior to 1840. East Outlet dam partly rebuilt of concrete in 1947-48 with gate sills at elevation 7.0 ft. Remaining wooden section rebuilt of concrete in 1955-56. Lake outlet dredged in 1948 to permit drawing level down to elevation 10.0 ft at a faster rate than formerly. Capacity, 23,735,000,000 cu ft between gage heights 10.0 and 17.5 ft. Water is used primarily for power, although some logs are driven each year. Some water was diverted through gates in dam at West Outlet; monthly mean diversion, in cubic feet per second, during water year 1972, is given below:

October	35	February	35	June	30
November	40	March	20	July	30
December	40	April	10	August	25
January	40	May	35	September	20

COOPERATION.--Gage-height record furnished by Kennebec Water Power Co.

REVISIONS (WATER YEARS).--WSP 1111: 1946-47 (change in contents). WSP 1901: Drainage area.

Capacity table (gage height, in feet, and capacity, in millions of cubic feet)

10.0	0	13.0	9,397	16.0	18,908
11.0	3,110	14.0	12,537	17.0	22,121
12.0	6,237	15.0	15,713	18.0	25,355

GAGE HEIGHT, IN FEET, AT 0700, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.11	12.57	12.58	12.83	12.62	12.38	12.14	11.90	17.53	17.54	17.51	15.72
2	13.02	12.56	12.60	12.82	12.60	12.38	12.14	12.03	17.62	17.51	17.50	15.69
3	12.96	12.57	12.60	12.82	12.59	12.40	12.16	12.20	17.55	17.48	17.45	15.65
4	12.83	12.57	12.60	12.82	12.57	12.40	12.15	12.38	17.50	17.62	17.40	15.79
5	12.71	12.57	12.60	12.82	12.57	12.38	12.11	12.62	17.50	17.64	17.36	15.82
6	12.60	12.55	12.60	12.81	12.57	12.36	12.08	12.84	17.49	17.65	17.36	15.84
7	12.57	12.53	12.61	12.80	12.57	12.33	12.03	13.05	17.50	17.64	17.34	15.72
8	12.52	12.61	12.62	12.80	12.57	12.31	11.98	13.25	17.54	17.60	17.31	15.63
9	12.44	12.60	12.62	12.79	12.56	12.28	11.92	13.43	17.54	17.55	17.28	15.53
10	12.45	12.57	12.62	12.78	12.55	12.23	11.86	13.62	17.55	17.51	17.22	15.53
11	12.58	12.56	12.65	12.78	12.53	12.17	11.82	13.80	17.58	17.51	17.12	15.51
12	12.61	12.55	12.67	12.77	12.51	12.10	11.80	13.98	17.58	17.52	17.06	15.46
13	12.63	12.53	12.69	12.76	12.50	12.04	11.76	14.18	17.56	17.54	17.05	15.40
14	12.65	12.52	12.69	12.76	12.50	11.98	11.76	14.36	17.53	17.54	16.98	15.35
15	12.65	12.52	12.70	12.74	12.48	11.94	11.71	14.58	17.51	17.55	16.87	15.30
16	12.66	12.52	12.71	12.73	12.46	11.91	11.71	14.95	17.52	17.56	16.73	15.26
17	12.64	12.50	12.73	12.71	12.44	11.91	11.68	15.30	17.53	17.72	16.65	15.22
18	12.60	12.48	12.74	12.70	12.41	11.93	11.64	15.64	17.53	17.73	16.58	15.18
19	12.58	12.47	12.75	12.69	12.37	11.93	11.64	15.95	17.51	17.64	16.57	15.11
20	12.56	12.45	12.78	12.68	12.41	11.90	11.63	16.30	17.50	17.69	16.56	15.02
21	12.54	12.45	12.80	12.67	12.41	11.91	11.62	16.66	17.51	17.65	16.54	14.90
22	12.53	12.45	12.80	12.67	12.40	11.92	11.61	17.00	17.52	17.66	16.44	14.86
23	12.52	12.43	12.80	12.67	12.40	11.95	11.59	17.22	17.53	17.62	16.37	14.76
24	12.50	12.42	12.80	12.67	12.40	11.99	11.57	17.35	17.53	17.56	16.27	14.74
25	12.48	12.40	12.80	12.65	12.40	12.03	11.55	17.45	17.53	17.52	16.18	14.70
26	12.55	12.45	12.80	12.65	12.40	12.06	11.55	17.48	17.55	17.52	16.12	14.62
27	12.55	12.48	12.81	12.64	12.40	12.08	11.58	17.50	17.55	17.58	16.10	14.57
28	12.55	12.48	12.81	12.64	12.39	12.10	11.64	17.52	17.55	17.58	16.04	14.51
29	12.56	12.49	12.81	12.64	12.39	12.10	11.72	17.52	17.54	17.59	16.00	14.40
30	12.57	12.54	12.81	12.63	------	12.12	11.78	17.53	17.53	17.58	15.92	14.32
31	12.57	------	12.83	12.62	------	12.13	------	17.51	------	17.56	15.82	------
MAX	13.11	12.61	12.83	12.83	12.62	12.40	12.16	17.53	17.62	17.73	17.51	15.84
MIN	12.44	12.40	12.58	12.62	12.37	11.90	11.55	11.90	17.49	17.48	15.82	14.32
*	8,027	7,933	8,843	8,184	7,462	6,645	5,548	23,767	23,832	23,929	18,332	13,551
**	-1,951	-94	+910	-659	-722	-817	-1,097	+18,219	+65	+97	-5,597	-4,781

CAL YR: . . . . ** -7,699
WTR YR: . . . . ** +3,573

* Contents, in millions of cubic feet, at end of month.
** Change in contents, in millions of cubic feet.

01041000 Kennebec River at Moosehead, Maine

LOCATION.--Lat 45°35'08", long 69°43'05", Somerset County, on right bank 700 ft downstream from dam at East Outlet of Moosehead Lake and 0.2 mile northwest of Moosehead.

DRAINAGE AREA.--1,266 sq mi.

PERIOD OF RECORD.--October 1919 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,015.53 ft above mean sea level. Prior to Oct. 9, 1924, nonrecording gage on railroad bridge 300 ft downstream at same datum.

AVERAGE DISCHARGE.--53 years, 1,896 cfs (20.34 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 8,660 cfs June 2 (gage height, 7.42 ft); minimum, 158 cfs Nov. 14 (gage height, 2.24 ft).
Period of record: Maximum discharge, 15,600 cfs May 8, 1947 (gage height, 9.94 ft); minimum, about 62 cfs Apr. 7-15, 1923.

REMARKS.--Records excellent. Some water diverted down west channel through gates in dam at West Outlet. Flow regulated by Moosehead Lake (see sta 01040500, p. 52) and by Brassua Lake and First Roach Pond (see p. 62).

REVISIONS (WATER YEARS).--WSP 1301: 1928-50 (adjusted monthly runoff). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,690	1,820	1,670	1,000	908	1,450	656	426	3,550	3,280	2,390	2,380
2	3,330	2,300	1,670	990	904	1,460	1,110	374	6,610	2,010	1,940	1,630
3	3,260	2,320	1,670	1,000	901	1,460	1,540	254	7,730	1,500	2,290	1,580
4	4,370	2,320	1,670	1,000	910	1,450	2,110	264	7,050	814	2,540	646
5	5,330	2,320	1,670	1,000	907	1,440	2,380	273	5,630	2,970	1,500	190
6	4,660	1,720	1,670	990	902	1,600	2,360	274	4,650	3,740	1,020	2,190
7	3,970	1,500	1,580	980	899	1,870	2,350	279	4,170	3,410	1,700	4,100
8	2,650	2,080	1,680	980	897	1,970	2,320	285	3,700	3,330	2,670	4,020
9	1,950	2,320	1,680	980	894	1,950	2,280	287	4,590	2,470	3,550	1,720
10	1,450	1,910	1,690	970	1,060	1,920	2,270	279	5,140	2,060	3,890	326
11	347	2,300	1,690	970	1,350	1,900	2,230	284	4,080	2,140	3,210	1,570
12	348	2,260	1,260	970	1,530	1,870	2,210	296	4,050	787	967	2,110
13	535	2,200	756	960	1,510	1,840	2,190	298	4,070	2,150	2,350	1,870
14	1,270	1,020	970	960	1,510	1,820	2,350	296	3,590	1,560	3,970	1,790
15	2,090	496	970	950	1,500	1,790	2,430	296	2,770	1,230	4,850	1,600
16	2,140	1,550	970	949	1,490	1,770	2,410	309	2,810	937	4,240	1,580
17	2,120	1,550	970	945	1,470	1,760	2,380	317	3,070	3,850	3,300	1,560
18	2,100	1,550	630	941	1,460	1,410	2,370	323	2,760	4,970	3,030	3,000
19	2,440	1,550	371	938	1,460	1,180	2,510	468	2,310	4,460	2,110	3,650
20	2,630	1,540	572	935	1,120	1,030	2,720	570	2,150	4,090	1,110	3,560
21	2,630	1,540	991	933	855	935	2,710	465	1,600	4,280	2,610	3,370
22	2,530	1,550	1,000	648	854	498	2,690	2,820	3,700	4,420	3,750	2,910
23	2,630	1,550	990	448	852	291	2,670	4,540	2,100	4,380	3,650	1,610
24	2,500	1,530	690	743	852	293	2,680	5,000	2,100	3,290	3,610	633
25	2,370	1,540	469	930	849	296	2,680	5,870	2,100	1,880	3,560	2,430
26	1,960	1,550	476	929	848	296	2,550	6,510	2,320	1,400	2,380	3,300
27	2,000	1,310	819	924	848	296	1,840	6,530	2,340	2,240	1,700	3,280
28	1,410	1,430	1,000	921	845	296	1,250	6,550	2,420	2,330	2,780	3,210
29	1,160	1,580	1,000	918	1,210	296	739	6,350	1,770	2,460	3,650	3,110
30	874	1,650	1,010	915	------	399	412	4,870	1,640	2,290	3,590	2,750
31	690	------	1,020	910	------	473	------	4,100	------	2,640	3,540	------
TOTAL	70,234	51,856	35,374	28,627	31,595	37,309	63,397	60,057	106,570	83,368	87,447	67,645
MEAN	2,266	1,729	1,141	923	1,089	1,204	2,113	1,937	3,552	2,689	2,821	2,255
MAX	5,330	2,320	1,690	1,000	1,530	1,970	2,720	6,550	7,730	4,970	4,850	4,100
MIN	347	496	371	448	845	291	412	254	1,600	787	967	190
MEAN*	391	517	932	700	848	936	1,892	12,200	3,744	2,724	650	268
CFSM*	.31	.41	.74	.55	.67	.74	1.49	9.64	2.96	2.15	.51	.21
IN. *	.36	.46	.85	.64	.72	.85	1.66	11.11	3.30	2.48	.59	.24

CAL YR 1971 TOTAL 755,184 MEAN 2,069 MAX 5,700 MIN 338 MEAN* 1,781 CFSM* 1.41 IN* 19.10
WTR YR 1972 TOTAL 723,479 MEAN 1,977 MAX 7,730 MIN 190 MEAN* 2,164 CFSM* 1.71 IN* 23.26

*Adjusted for change in contents in Brassua and Moosehead Lakes, First Roach Pond, and diversion through West Outlet.

01042500 Kennebec River at The Forks, Maine

LOCATION.--Lat 45°20'25", long 69°57'48", Somerset County, on right bank at The Forks, 0.4 mile upstream from highway bridge and 0.7 mile upstream from Dead River.

DRAINAGE AREA.--1,589 sq mi.

PERIOD OF RECORD.--September 1901 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.03 ft above mean sea level. Prior to June 21, 1912, nonrecording gage and June 21, 1912, to Oct. 17, 1919, water-stage recorder and nonrecording gage at highway bridge 0.4 mile downstream at different datum.

AVERAGE DISCHARGE.--71 years, 2,549 cfs (21.78 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,400 cfs Dec. 14 (gage height, 6.31 ft); maximum gage height, 9.94 ft Feb. 23,24,28 (backwater from ice); minimum daily discharge, 177 cfs Sept. 3.
Period of record: Maximum discharge, about 23,700 cfs June 18, 1917 (gage height, 10.1 ft, former site and datum); minimum, 85 cfs Sept. 3, 1953 (gage height, 1.02 ft).

REMARKS.--Records good. Flow regulated by Moosehead Lake (see sta 01040500, p. 52), Brassua Lake, and Moxie, Indian, and First Roach Ponds (see p. 62). Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1231: 1902-4, 1906-8, 1912, 1914, 1919-20 (M), 1923 (M), 1926 (M), 1928-29 (M), 1936 (M), 1938 (M). WSP 1301: 1928-35 (adjusted monthly runoff). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,560	2,750	1,820	283	1,640	1,780	414	2,290	6,200	2,560	2,760	3,680
2	2,350	2,680	1,700	1,050	1,600	1,800	355	3,650	7,000	1,920	2,240	1,360
3	769	2,970	1,900	1,600	1,630	1,770	1,220	3,340	7,600	2,430	2,160	177
4	3,560	2,610	500	1,600	1,540	250	2,360	3,820	7,700	1,340	2,130	368
5	3,920	2,330	300	1,350	260	1,400	2,380	4,440	6,900	3,600	2,010	2,580
6	4,340	1,420	2,020	1,150	740	2,900	3,800	6,530	5,900	3,750	564	2,830
7	4,360	612	2,030	1,000	1,670	2,300	4,600	5,000	4,650	4,050	3,450	2,240
8	4,310	2,940	2,020	283	1,780	2,660	965	4,600	4,650	3,880	2,680	2,200
9	3,510	2,580	1,710	955	1,520	2,760	376	4,250	4,800	2,670	3,990	1,930
10	540	2,370	1,700	1,740	1,700	2,230	3,950	4,000	6,100	3,110	4,300	483
11	1,380	1,900	517	1,330	1,730	298	3,710	3,500	5,400	2,480	3,230	2,100
12	2,290	1,810	299	1,170	745	262	3,330	3,000	5,600	2,660	2,130	2,180
13	2,920	1,160	1,430	1,090	261	2,040	3,190	2,500	5,300	1,610	958	2,320
14	3,360	718	1,770	878	2,170	2,130	2,480	2,000	3,900	1,440	4,090	2,160
15	2,530	2,630	1,170	276	1,800	2,470	603	2,900	2,900	2,170	3,690	2,170
16	767	2,190	1,170	935	1,450	2,480	39	2,800	2,510	566	3,210	2,040
17	638	2,240	1,240	2,030	1,210	2,520	2,680	3,200	2,650	4,530	3,250	1,210
18	2,470	1,980	365	802	1,290	348	3,400	3,300	2,390	6,370	3,380	2,710
19	2,500	2,070	300	1,090	269	276	4,330	3,300	3,790	6,680	2,300	3,060
20	2,230	930	2,030	1,320	380	773	4,550	1,400	3,430	5,570	1,050	3,580
21	2,350	300	1,560	1,260	270	820	4,740	1,400	3,100	5,430	3,460	3,860
22	2,710	2,400	1,080	412	1,350	1,370	2,030	5,200	3,010	5,860	3,390	3,730
23	1,830	2,450	1,010	226	1,650	1,170	775	5,700	3,220	5,790	3,330	2,760
24	553	2,600	298	1,330	1,600	1,260	4,350	6,300	2,290	5,480	3,520	986
25	571	700	243	1,550	1,650	408	4,920	7,200	559	2,770	4,240	3,250
26	2,920	2,620	290	1,720	700	357	4,630	8,000	2,730	2,500	2,620	3,330
27	2,400	1,400	1,700	1,640	275	1,190	2,990	8,000	2,320	2,110	905	3,420
28	1,870	300	1,440	1,550	750	1,280	2,310	4,400	2,890	1,490	3,900	3,490
29	1,700	1,300	1,640	264	1,570	1,310	949	6,500	2,380	3,240	3,700	4,700
30	1,270	1,980	1,990	638	------	1,210	1,030	5,100	2,180	2,210	3,540	3,210
31	424	------	1,650	1,600	------	1,260	------	3,700	------	3,360	4,190	------
TOTAL	70,742	57,140	38,892	34,119	35,200	45,082	77,815	131,320	124,049	103,626	90,367	74,054
MEAN	2,282	1,905	1,255	1,101	1,214	1,454	2,594	4,236	4,135	3,343	2,915	2,468
MAX	4,310	2,970	2,030	2,030	2,170	2,900	4,920	8,000	7,700	6,680	4,300	4,700
MIN	424	300	243	226	260	250	355	1,400	559	566	564	177
MEAN*	476	535	974	869	938	1,199	2,406	14,770	4,258	3,338	672	327
CFSM*	.30	.34	.61	.55	.59	.76	1.51	9.30	2.68	2.10	.42	.21
IN. *	.35	.38	.71	.63	.64	.87	1.68	10.72	2.99	2.42	.49	.23

CAL YR 1971 TOTAL 923,264 MEAN 2,529 MAX 7,730 MIN 215 MEAN* 2,193 CFSM* 1.38 IN* 18.72
WTR YR 1972 TOTAL 882,406 MEAN 2,411 MAX 8,000 MIN 177 MEAN* 2,580 CFSM* 1.62 IN* 22.11

*Adjusted for change in contents in Brassua and Moosehead Lakes, and First Roach, Indian and Moxie Ponds.

KENNEBEC RIVER BASIN

01043500 Dead River near Dead River, Maine

LOCATION.--Lat 45°13'48", long 70°11'58", Somerset County, on right bank at foot of long Falls, in T. 3, R. 4, 0.3 mile upstream from Black Brook, and 0.5 mile downstream from Flagstaff Lake Dam.

DRAINAGE AREA.--520 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October to December 1939, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 1,037.32 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 829 cfs (21.65 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,280 cfs May 18 (gage height, 9.62 ft); minimum daily, 0.4 cfs Oct. 1-3.

Period of record: Maximum discharge, 18,000 cfs Sept. 12, 1954 (gage height, 11.50 ft); no flow part of July 31, 1949, when flow was completely shut off by cofferdam during construction of Flagstaff Lake Dam.

REMARKS.--Records good. Flow regulated by Flagstaff Lake (see sta 01043000 p. 62).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.4	309	589	516	478	195	482	8.0	1,090	1,320	442	601
2	.4	974	589	515	472	197	470	8.0	1,610	977	632	1,190
3	.4	568	917	619	464	195	473	8.0	1,680	746	799	1,230
4	23	7.8	1,060	713	453	195	455	8.0	1,240	1,380	821	417
5	2.1	7.2	1,050	708	437	195	458	8.0	1,070	1,280	779	25
6	2.5	7.8	756	706	426	195	468	8.0	774	848	953	25
7	1.8	110	574	703	459	195	461	8.0	575	727	1,010	25
8	635	938	571	692	546	195	474	8.0	596	975	40	26
9	1,030	638	568	688	510	195	455	8.0	1,260	1,070	57	715
10	705	637	568	681	472	195	440	8.0	2,100	509	169	1,100
11	5.7	634	905	675	429	195	428	8.0	2,100	921	182	1,090
12	5.2	631	1,070	669	383	195	420	8.0	1,630	1,630	133	1,080
13	5.0	631	736	676	335	195	429	8.0	938	1,760	1,000	1,060
14	297	631	541	672	298	195	414	8.0	715	1,250	849	1,060
15	55	627	542	669	269	195	416	8.0	727	718	34	1,050
16	695	624	541	663	257	192	436	2,440	701	334	34	1,040
17	1,030	584	540	656	285	205	453	4,500	694	639	796	1,030
18	1,010	620	540	647	266	258	485	5,600	703	781	1,190	792
19	774	617	540	639	255	281	479	8,640	532	773	1,220	605
20	673	617	538	599	245	415	460	8,480	348	764	1,210	603
21	684	616	534	581	235	530	543	8,190	358	774	497	603
22	1,060	611	533	575	230	544	595	5,430	470	795	26	599
23	1,060	610	533	570	220	587	631	3,120	407	891	25	596
24	1,080	742	530	553	215	577	665	1,980	830	1,340	25	595
25	1,070	947	528	536	210	581	700	2,260	1,150	1,320	25	272
26	782	942	527	529	205	563	733	2,580	1,170	1,290	853	4.1
27	652	938	522	524	200	561	758	2,360	1,160	1,270	1,360	4.2
28	652	931	522	517	200	534	379	1,720	1,050	1,110	31	4.2
29	652	765	522	499	196	518	26	589	786	51	30	195
30	604	595	517	490	------	500	8.0	73	781	59	31	1,030
31	10	------	517	483	------	492	------	447	------	96	31	------
TOTAL	14,976.5	18,109.8	19,520	18,957	9,650	10,265	14,094.0	58,529.0	29,245	28,338	15,284	18,667.5
MEAN	483	604	630	612	333	331	470	1,888	975	914	493	622
MAX	1,080	974	1,070	713	546	587	758	8,640	2,100	1,760	1,360	1,230
MIN	.40	7.2	517	483	196	192	8.0	8.0	348	51	25	4.1
MEAN*	261	234	251	252	145	406	1,179	5,588	975	945	195	46
CFSM*	.50	.45	.48	.48	.28	.78	2.27	10.8	1.88	1.82	.38	.09
IN. *	.58	.50	.56	.56	.30	.90	2.53	12.40	2.10	2.10	.43	.10

CAL YR 1971 TOTAL 311,691.50 MEAN 854 MAX 5,260 MIN .40 MEAN* 762 CFSM* 1.47 IN* 19.88
WTR YR 1972 TOTAL 255,635.80 MEAN 698 MAX 8,640 MIN .40 MEAN* 879 CFSM* 1.69 IN* 23.06

*Adjusted for change in contents in Flagstaff Lake.

01045000 Dead River at The Forks, Maine

LOCATION.--Lat 45°20'59", long 69°59'26", Somerset County, on left bank 1.5 miles northwest of The Forks, and 1.8 miles upstream from mouth.

DRAINAGE AREA.--872 sq mi.

PERIOD OF RECORD.--September 1901 to August 1907, March 1910 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 600.5 ft above mean sea level. Prior to September 29, 1923, nonrecording gage at site 100 ft downstream at same datum.

AVERAGE DISCHARGE.--67 years (1902-7, 1910-72), 1,427 cfs (22.22 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 14,400 cfs May 19 (gage height, 7.61 ft); minimum daily, 93 cfs Sept. 29.
Period of record: Maximum discharge, 28,700 cfs Mar. 20, 1936 (gage height, 10.54 ft) from rating curve extended above 15,000 cfs; minimum daily since September 1923, 61 cfs Dec. 23, 1968.

REMARKS.--Records excellent except those for winter period and period of no gage-height record, which are fair. Flow regulated by Flagstaff and Spencer Lakes (see sta 01043000 and 01044500, p. 62). Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: Drainage area. WSP 1231: 1913-15, 1916-17 (M), 1919-20 (M), 1922 (M). WSP 1301: 1904 (M), 1907, 1911-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	194	600	560	580	325	920	4,100	2,130	1,450	524	243
2	142	1,080	610	555	565	320	910	4,700	2,930	1,600	915	1,190
3	135	1,110	700	690	555	315	920	3,500	2,890	994	1,020	1,280
4	127	408	1,070	760	545	310	965	4,500	2,350	2,920	1,160	1,020
5	236	160	1,070	750	540	305	1,080	5,090	1,970	2,660	1,080	235
6	143	126	1,050	740	550	305	1,050	4,720	1,650	1,810	1,020	160
7	140	132	830	735	590	300	970	5,310	1,300	1,343	1,780	136
8	294	950	660	730	635	300	920	6,070	1,270	1,360	347	123
9	1,133	905	600	723	605	300	875	4,880	1,630	1,520	270	334
10	1,140	763	590	730	555	295	845	4,140	3,420	1,210	287	1,160
11	357	756	650	750	520	295	810	3,640	3,590	1,240	355	1,150
12	513	740	1,100	810	490	290	780	3,343	2,993	2,130	322	1,170
13	342	732	1,000	870	480	290	800	3,130	1,980	2,350	798	1,210
14	363	708	830	920	485	290	840	3,870	1,370	1,820	1,230	1,250
15	418	725	730	960	500	290	890	5,870	1,280	1,300	360	1,230
16	335	739	690	895	520	290	970	8,040	1,210	676	188	1,210
17	923	682	670	840	545	320	1,390	9,610	1,140	955	405	1,190
18	1,143	695	650	800	560	500	1,260	10,400	1,070	1,330	1,280	1,060
19	1,030	705	640	760	520	1,100	1,480	14,100	974	1,760	1,390	738
20	771	716	630	735	480	1,100	1,780	13,500	659	2,090	1,380	727
21	854	718	620	710	445	1,110	1,650	13,100	634	1,710	1,090	720
22	1,133	723	615	690	415	1,130	1,500	11,600	710	1,820	244	739
23	1,170	709	610	665	395	1,200	1,570	7,520	729	1,510	171	702
24	1,170	822	605	650	375	1,240	1,630	5,590	1,140	2,030	156	693
25	1,160	980	600	640	365	1,210	1,680	4,830	1,910	1,830	151	598
26	1,120	975	595	635	355	1,170	1,730	4,820	1,970	1,940	499	174
27	334	970	590	645	340	1,100	1,760	4,240	1,840	1,860	1,590	112
28	619	860	580	650	340	1,060	1,010	3,590	1,690	1,830	458	97
29	791	690	575	630	335	1,020	1,280	2,410	1,320	668	173	93
30	572	605	570	615	------	975	1,900	1,280	1,200	541	142	823
31	223	------	565	600	------	965	------	1,290	------	467	129	------
TOTAL	19,976	21,078	21,915	22,443	14,185	20,000	35,865	182,780	50,946	48,691	20,914	21,537
MEAN	644	703	707	724	489	645	1,196	5,896	1,698	1,571	675	718
MAX	1,170	1,110	1,100	960	635	1,240	1,900	14,100	3,590	2,923	1,780	1,280
MIN	127	126	565	555	335	290	780	1,280	634	457	129	93
MEAN*	345	333	328	364	301	720	1,905	9,834	1,681	1,586	377	-71
CFSM*	.40	.38	.38	.42	.34	.83	2.18	11.3	1.93	1.82	.43	-.08
IN.*	.46	.43	.43	.48	.37	.95	2.43	13.01	2.15	2.10	.50	-.09

CAL YR 1971 TOTAL 496,245 MEAN 1,360 MAX 9,090 MIN 104 MEAN* 1,268 CFSM* 1.45 IN* 19.74
WTR YR 1972 TOTAL 480,327 MEAN 1,312 MAX 14,100 MIN 93 MEAN* 1,487 CFSM* 1.71 IN* 23.22

*Adjusted for change in contents in Flagstaff and Spencer Lakes.
Note.--No gage-height record Mar. 28 to May 4. Negative figures of adjusted discharge and runoff indicate evaporation and seepage exceed inflow.

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, on right bank at Bingham, 200 ft downstream from highway bridge, 0.4 mile downstream from Austin Stream, and 1.6 miles downstream from Wyman Dam.

DRAINAGE AREA.--2,720 sq mi.

PERIOD OF RECORD.--June 1907 to June 1910, October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 330.2 ft above mean sea level. June 1907 to June 1910, nonrecording gage on highway bridge at different datum.

AVERAGE DISCHARGE.--44 years (1907-8, 1930-72), 4,316 cfs (21.55 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 25,200 cfs May 19 (gage height, 11.23 ft); minimum daily, 931 cfs Feb. 20.

Period of record: Maximum discharge, 58,800 cfs Mar. 20, 1936 (gage height, 14.44 ft), from rating curve extended above 30,000 cfs on basis of computations of flow at Wyman Dam plus inflow; minimum daily, 110 cfs Dec. 25, 1947.

REMARKS.--Records excellent. Flow regulated by Moosehead Lake (see sta 01040500, p. 52), Brassua, Flagstaff, and Spencer Lakes, First Roach, Indian, Moxie, and Wyman Ponds (see p. 62). Considerable diurnal fluctuation caused by powerplant above station. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS.--WSP 1271: 1951 (M). WSP 1301: 1936 (M). WSP 1901: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,390	2,830	2,540	1,600	1,750	1,700	2,210	7,030	7,850	4,670	3,780	3,830
2	3,470	2,770	2,530	1,230	1,750	1,640	1,060	12,300	12,600	3,030	3,560	3,530
3	3,420	2,660	2,300	1,780	1,780	1,690	2,460	9,620	11,300	3,250	3,340	3,270
4	3,760	2,940	1,980	1,780	1,700	1,760	3,010	10,330	12,100	4,550	3,460	1,740
5	3,360	2,710	1,690	1,740	1,600	1,160	3,520	15,000	10,100	5,500	3,360	2,780
6	3,350	2,530	2,370	1,700	1,350	2,240	4,550	14,600	8,430	5,980	3,180	2,500
7	3,410	2,040	2,360	1,800	1,640	2,310	4,400	14,000	7,850	5,960	3,630	3,330
8	3,300	2,640	2,350	1,750	1,750	2,080	4,280	18,200	6,900	5,800	4,120	2,990
9	3,230	2,730	2,390	1,130	1,720	2,190	4,390	14,300	6,500	4,970	3,710	2,760
10	2,650	2,470	2,350	1,680	1,930	2,250	4,300	13,300	8,360	4,580	3,990	2,640
11	3,130	2,730	1,960	1,800	1,600	1,940	4,420	11,000	12,000	4,470	3,870	3,160
12	2,700	2,820	1,600	1,720	1,650	1,270	4,270	9,250	9,210	4,730	3,420	3,370
13	2,980	2,430	2,160	1,720	1,300	2,220	4,490	9,210	8,080	5,280	3,230	3,240
14	3,250	1,880	1,890	1,650	1,790	2,290	4,370	9,310	7,190	4,600	3,670	2,760
15	3,110	2,780	1,940	1,340	1,520	2,130	2,990	13,100	5,970	3,290	3,610	1,750
16	2,590	2,680	2,140	1,310	1,660	2,150	3,090	16,300	4,730	3,010	3,770	2,530
17	2,430	2,680	1,970	1,720	1,500	2,120	4,400	20,000	4,310	4,620	3,880	3,700
18	2,780	2,640	1,370	1,670	1,350	2,170	4,510	18,500	2,400	6,370	3,820	4,310
19	2,890	2,830	960	1,650	1,440	1,150	4,130	22,400	4,010	9,250	3,530	3,690
20	2,950	2,500	1,470	1,770	931	2,420	4,170	18,400	4,710	9,470	3,510	4,480
21	2,810	1,880	1,570	1,590	2,130	2,670	4,070	17,300	4,250	7,770	3,800	4,130
22	2,730	2,620	1,630	1,650	1,340	2,620	4,610	18,100	4,570	8,150	3,790	3,730
23	2,760	2,750	1,830	1,130	1,990	4,220	4,340	15,800	3,720	8,010	3,920	3,220
24	2,330	2,690	1,550	1,710	1,640	4,390	4,140	11,300	3,160	7,630	4,050	3,350
25	2,730	2,550	1,080	1,710	1,680	3,270	4,470	13,100	3,100	5,460	3,830	3,120
26	2,650	2,440	1,230	1,950	1,540	1,960	4,650	12,600	3,930	5,280	3,590	3,560
27	2,730	2,370	1,750	1,720	1,150	3,720	4,530	13,600	4,440	5,410	3,410	3,730
28	2,780	2,120	1,750	1,660	1,650	3,110	4,380	11,300	4,840	4,850	3,850	3,850
29	2,760	2,580	1,780	1,680	1,750	2,420	4,570	7,240	4,880	4,640	3,940	3,730
30	2,810	2,870	1,620	1,250	-------	2,610	4,440	7,130	4,850	3,910	3,940	3,000
31	2,230	-------	1,670	1,750	-------	2,510	-------	5,070	-------	3,780	3,890	-------
TOTAL	91,400	77,300	58,080	50,510	46,551	72,380	118,990	408,630	196,340	168,250	114,450	97,450
MEAN	2,948	2,577	1,874	1,629	1,605	2,335	3,966	13,180	6,545	5,427	3,692	3,248
MAX	3,760	2,940	2,540	1,950	2,130	4,390	4,650	22,400	12,600	9,470	4,120	4,480
MIN	2,230	1,880	960	1,130	931	1,150	1,060	5,370	2,400	3,010	3,180	1,740
MEAN*	832	884	1,218	985	1,113	1,867	4,865	27,670	6,590	5,422	1,177	291
CFSM*	.31	.32	.45	.36	.41	.69	1.79	10.2	2.42	1.99	.43	.11
IN. *	.35	.36	.52	.42	.44	.79	2.00	11.72	2.70	2.29	.50	.12

CAL YR 1971 TOTAL 1,492,140 MEAN 4,088 MAX 19,700 MIN 960 MEAN* 3,660 CFSM* 1.35 IN* 18.25

WTR YR 1972 TOTAL 1,500,331 MEAN 4,099 MAX 22,400 MIN 931 MEAN* 4,441 CFSM* 1.63 IN* 22.21

*Adjusted for change in contents in Brassua, Moosehead, Flagstaff and Spencer Lakes, and First Roach, Indian, Moxie and Wyman Ponds.

01047000 Carrabassett River near North Anson, Maine

LOCATION.--Lat 44°52'09", long 69°57'20", Somerset County, on left bank 3.4 miles upstream from Mill Stream and North Anson.

DRAINAGE AREA.--354 sq mi.

PERIOD OF RECORD.--November and December 1901, June 1902 to May 1907, August 1925 to current year. Monthly discharge only for some periods, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 303.3 ft above mean sea level. November 1, 1901, to May 5, 1907, nonrecording gage 1 mile upstream at different datum.

AVERAGE DISCHARGE.--51 years (1902-6, 1925-72), 696 cfs (26.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,080 cfs May 7 (gage height, 10.82 ft); minimum, 54 cfs Oct. 4 (gage height, 2.54 ft).

Period of record: Maximum discharge, 30,800 cfs Mar. 19, 1936 (gage height, 21.17 ft); minimum, 18 cfs Oct. 29, 1929 (gage height, 2.02 ft).

REVISIONS.--The maximum discharge for the water year 1951 has been revised to 20,100 cfs Apr. 4, 1951 (gage height, 16.98 ft), superseding figure published in WSP 1201 and 1721.

REMARKS.--Records excellent except those for winter period, which are fair. Some regulation at low flows by mills above station. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: Drainage area. WSP 1231: 1904-7, 1928 (M), 1932 (M), 1936 (M), 1938 (M), 1944 (M), 1950 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	150	144	130	155	155	1,040	5,450	1,460	452	478	130
2	59	147	141	130	155	155	1,100	6,130	2,090	415	425	119
3	57	167	146	130	155	160	1,310	4,770	1,570	389	481	128
4	55	202	151	130	165	160	1,480	6,590	1,180	1,840	627	1,230
5	56	194	140	130	175	160	1,560	6,810	1,030	1,200	493	928
6	58	172	128	130	185	160	1,460	5,520	824	772	377	608
7	71	282	149	130	195	160	1,340	6,810	706	484	305	426
8	99	662	153	130	190	160	1,200	6,720	771	485	305	328
9	81	419	151	130	180	160	1,110	5,170	788	439	298	323
10	91	241	153	135	175	160	1,030	4,120	1,640	413	380	298
11	794	232	167	135	170	160	971	3,520	2,010	1,710	320	223
12	507	212	231	140	165	160	1,020	3,080	1,380	1,220	255	195
13	332	200	296	150	160	160	1,120	2,850	979	823	228	174
14	258	157	255	160	165	160	1,220	3,620	574	645	202	177
15	218	112	231	180	185	155	1,340	5,630	467	567	182	180
16	191	141	215	215	215	155	1,240	5,470	440	457	167	164
17	168	134	200	195	210	180	1,520	4,830	445	771	156	152
18	150	135	185	180	195	350	2,060	4,410	384	761	160	142
19	136	133	175	175	185	1,300	2,710	3,960	353	533	286	111
20	133	139	170	170	180	1,080	3,630	3,050	312	610	256	103
21	124	142	165	170	175	920	2,760	3,000	283	542	195	101
22	119	140	160	165	170	850	2,210	2,710	291	736	168	97
23	117	149	155	165	165	2,130	2,230	2,000	1,010	525	150	91
24	109	142	150	160	165	1,810	2,120	1,730	1,290	403	142	86
25	111	95	145	160	165	1,610	2,620	1,390	1,260	602	139	85
26	215	107	145	165	160	1,420	2,620	1,090	1,030	1,940	150	87
27	336	128	140	175	160	1,250	2,350	935	817	1,320	152	88
28	247	151	140	170	160	1,140	1,950	926	668	1,060	239	85
29	236	153	135	165	160	1,060	2,380	873	676	1,580	274	82
30	179	147	135	160	------	1,050	3,560	661	531	1,030	190	86
31	162	------	135	160	------	1,060	------	598	------	588	150	------
TOTAL	5,500	5,585	5,186	4,820	5,040	19,750	54,261	114,523	27,259	25,322	8,330	7,027
MEAN	177	186	167	155	174	637	1,809	3,694	909	817	269	234
MAX	794	662	296	215	215	2,130	3,630	6,810	2,090	1,940	627	1,230
MIN	55	95	128	130	155	155	971	598	283	389	139	82
CFSM	.50	.53	.47	.44	.49	1.80	5.11	10.4	2.57	2.31	.76	.66
IN.	.58	.59	.54	.51	.53	2.08	5.70	12.03	2.86	2.66	.88	.74

CAL YR 1971 TOTAL 223,368 MEAN 612 MAX 14,700 MIN 55 CFSM 1.73 IN 23.47
WTR YR 1972 TOTAL 282,603 MEAN 772 MAX 6,810 MIN 55 CFSM 2.18 IN 29.70

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-02	0100	10.27	8,130	5-15	2400	9.49	6,850
5-07	2400	10.82	9,080				

01048000 Sandy River near Mercer, Maine

LOCATION.--Lat 44°42'26", long 69°56'21", Somerset County, on right bank 0.9 mile upstream from Bog Stream, 2.1 miles north of Mercer, and 8.6 miles upstream from mouth.

DRAINAGE AREA.--514 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 197.1 ft above mean sea level.

AVERAGE DISCHARGE.--44 years, 931 cfs (24.60 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,000 cfs May 4 (gage height, 9.25 ft); minimum, 74 cfs Oct. 6 (gage height, 2.53 ft).

Period of record: Maximum discharge, 38,600 cfs Mar. 19, 1936 (gage height, 16.75 ft), from rating curve extended above 13,000 cfs on basis of records for stations on Kennebec River at Bingham and Waterville, Carrabassett River near North Anson, and Sebasticook River near Pittsfield; maximum gage height, 18.89 ft Feb. 12, 1970 from floodmark (backwater from ice); minimum discharge, 32 cfs Sept. 22-26, 1939 (gage height, 2.15).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: 1933. WSP 801: Drainage area. WSP 1231: 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	167	170	175	220	225	2,140	7,750	1,980	617	541	204
2	79	160	146	175	210	230	2,420	8,590	3,100	587	457	179
3	77	168	162	170	215	230	2,940	7,000	1,950	557	446	182
4	81	200	169	170	230	230	3,220	10,000	1,400	2,600	768	2,040
5	81	213	160	170	245	230	3,290	8,680	1,250	1,730	659	1,210
6	77	193	145	170	255	225	3,140	7,120	1,070	1,070	494	685
7	77	201	160	170	265	225	2,770	7,340	897	811	414	508
8	77	368	160	170	270	220	2,350	7,740	985	674	379	417
9	103	447	170	170	260	220	2,120	5,830	897	734	381	428
10	119	327	170	170	250	220	1,960	4,590	1,370	643	485	548
11	631	280	180	175	235	215	2,050	3,890	1,910	1,200	499	422
12	820	259	190	185	220	210	2,390	3,370	1,320	1,500	397	347
13	439	245	280	200	230	210	2,800	2,990	975	908	331	299
14	313	223	310	225	280	205	2,860	3,260	784	775	276	285
15	249	205	270	250	330	205	3,150	4,530	675	875	256	285
16	211	190	240	265	370	205	2,870	5,190	614	701	255	274
17	185	181	220	270	370	220	3,680	4,390	640	997	231	245
18	166	182	210	265	325	550	4,470	3,960	566	792	198	199
19	151	186	200	250	300	1,100	5,180	3,590	480	632	216	177
20	143	189	190	235	280	2,300	5,530	2,860	439	625	300	162
21	136	188	185	225	265	1,850	4,370	2,570	402	702	250	152
22	132	196	185	215	255	1,400	4,110	2,450	382	939	207	146
23	129	193	180	205	250	2,500	4,490	1,890	624	810	189	139
24	124	160	180	205	240	3,750	4,390	1,560	1,410	578	175	132
25	127	130	180	220	235	3,150	5,700	1,320	1,590	484	166	127
26	146	145	175	240	230	2,800	5,540	1,080	1,440	1,310	183	125
27	317	145	175	250	230	2,550	4,730	917	1,190	1,160	217	124
28	333	160	175	260	225	2,350	3,900	802	901	946	319	121
29	257	168	175	250	225	2,220	4,650	733	833	1,300	507	117
30	213	181	175	240	------	2,240	5,990	658	728	976	349	120
31	185	------	175	230	------	2,240	------	607	------	685	255	------
TOTAL	6,281	6,250	5,862	6,570	7,515	34,725	109,200	127,257	32,802	28,918	10,800	10,399
MEAN	203	208	189	212	259	1,120	3,640	4,105	1,093	933	348	347
MAX	820	447	310	270	370	3,750	5,990	10,000	3,100	2,600	768	2,040
MIN	77	130	145	170	210	205	1,960	607	382	484	166	117
CFSM	.39	.40	.37	.41	.50	2.18	7.08	7.99	2.13	1.82	.68	.68
IN.	.45	.45	.42	.48	.54	2.51	7.90	9.21	2.37	2.09	.78	.75

CAL YR 1971 TOTAL 294,419 MEAN 807 MAX 15,400 MIN 70 CFSM 1.57 IN 21.31
WTR YR 1972 TOTAL 386,579 MEAN 1,056 MAX 10,000 MIN 77 CFSM 2.05 IN 27.98

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-26	0500	7.38	6,060	5-04	1200	9.25	11,000

01049000 Sebasticook River near Pittsfield, Maine

LOCATION.--Lat 44°43'00", long 69°24'56", Somerset County, on right bank 1.7 miles upstream from Twentyfivemile Stream, and 5.0 miles south of Pittsfield.

DRAINAGE AREA.--579 sq mi.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 133.9 ft above mean sea level.

AVERAGE DISCHARGE.--43 years (1929-72), 923 cfs (21.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,710 cfs May 6 (gage height, 8.58 ft); minimum daily, 120 cfs Jan. 4-9.
Period of record: Maximum discharge, 14,400 cfs Mar. 22, 1936 (gage height, 13.18 ft); minimum daily, 4.5 cfs Nov. 10, 1956.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated at dam 0.4 mile upstream, and by Great Moose and Sebasticook Lakes and Plymouth Pond (combined capacity, about 2,345,000,000 cu ft).

REVISIONS.--WSP 1271: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	125	155	125	160	240	2,540	4,880	491	555	637	259
2	140	127	146	125	155	240	2,510	4,950	1,380	516	591	255
3	141	130	142	125	150	240	2,640	5,230	2,020	491	579	271
4	136	135	139	120	150	240	2,850	5,940	2,440	565	621	690
5	141	134	135	120	160	240	3,100	6,490	2,780	588	565	1,060
6	148	131	131	120	160	250	3,210	6,680	2,740	571	511	1,280
7	153	137	133	120	150	255	3,380	6,460	2,510	553	467	1,340
8	146	154	137	120	145	265	2,870	6,040	2,240	525	437	1,280
9	141	151	135	120	140	270	2,670	5,540	1,880	493	406	1,200
10	161	144	139	125	135	270	2,470	5,000	1,760	457	402	1,140
11	246	142	149	125	135	270	2,330	4,450	2,190	471	374	1,130
12	223	140	161	125	135	270	2,230	3,880	2,580	474	344	1,170
13	203	141	169	125	135	270	2,290	3,360	2,740	464	328	1,090
14	178	137	173	130	160	270	2,460	2,860	2,630	465	317	1,010
15	167	132	175	140	300	265	2,640	2,400	2,400	462	333	914
16	161	131	181	160	418	260	2,790	2,160	2,160	463	333	810
17	154	128	176	190	420	270	2,980	2,060	1,920	603	325	732
18	142	127	167	210	404	700	3,300	2,000	1,580	544	331	722
19	142	127	157	205	375	1,840	3,860	1,890	1,200	491	341	704
20	135	128	150	190	350	2,150	4,580	1,700	939	476	324	644
21	135	131	145	180	320	2,390	5,140	1,550	786	457	313	579
22	134	132	140	170	305	2,450	5,330	1,420	693	441	306	534
23	138	127	135	170	285	3,070	5,380	1,250	651	399	299	493
24	132	124	135	165	275	3,960	5,390	861	621	362	288	455
25	133	131	140	170	265	4,740	5,540	649	612	407	278	431
26	139	145	145	180	255	5,260	5,680	568	607	750	277	449
27	138	141	145	180	250	4,780	5,650	518	592	896	270	423
28	136	141	145	175	250	4,090	5,490	477	615	837	285	323
29	134	141	140	170	245	3,460	5,230	410	708	755	275	258
30	135	159	135	165	------	3,020	4,980	367	645	724	266	290
31	127	------	130	160	------	2,750	------	339	------	670	261	------
TOTAL	4,681	4,073	4,591	4,705	6,787	49,045	111,210	92,379	47,110	16,925	11,684	21,936
MEAN	151	136	148	152	234	1,582	3,707	2,980	1,570	546	377	731
MAX	246	159	181	210	420	5,260	5,680	6,680	2,780	896	637	1,340
MIN	127	124	130	120	135	240	2,230	339	491	362	261	255

CAL YR 1971 TOTAL 284,414 MEAN 779 MAX 5,980 MIN 21
WTR YR 1972 TOTAL 375,126 MEAN 1,025 MAX 6,680 MIN 120

01049300 North Branch Tanning Brook near Manchester, Maine

LOCATION.--Lat 44°21'00", long 69°51'07", Kennebec County, on right bank 28 ft upstream from culvert under road between U.S. Highway 202 and State Highway 135, 1,800 ft upstream from mouth, and 1.8 miles north of Manchester.

DRAINAGE AREA.--0.93 sq mi.

PERIOD OF RECORD.--November 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 210 ft (from topographic map).

AVERAGE DISCHARGE.--8 years (1965-72), 1.80 cfs (26.28 inches per year).

EXTREMES.--Current year: Maximum discharge, 50 cfs Mar. 23 (gage height, 2.64 ft); minimum, .08 cfs Oct. 9 (gage height, 0.52 ft).

Period of record: Maximum discharge, 97 cfs Feb. 11, 1970 (gage height, 3.20 ft); maximum gage height, 3.44 ft Mar. 25, 1969 (backwater from ice); minimum discharge, 0.05 cfs Aug. 21, 1970.

Maximum discharge known since September 1963, 104 cfs November 8, 1963 (gage height, 3.26 ft) from crest-stage gage.

REMARKS.--Records good except those for winter period, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.38	1.7	.25	.34	.67	7.5	4.7	22	.75	.18	.13
2	.15	.27	.84	.27	.33	.86	10	5.5	9.0	.64	.17	.13
3	.14	.23	.58	.38	.32	.60	14	12	2.9	.55	.18	.41
4	.13	.23	.49	.34	1.2	.49	12	19	2.7	.73	.21	4.6
5	.14	.27	.60	.36	.79	.45	9.2	7.5	3.4	.44	.17	1.1
6	.13	.30	.73	.34	.58	.42	7.6	4.9	2.0	.36	.17	.52
7	.13	.59	.53	.32	.49	.40	5.3	4.0	2.4	.30	.17	.39
8	.12	.93	.50	.30	.44	1.6	3.9	3.7	2.7	.25	.17	.33
9	.09	.66	.46	.27	.41	2.9	3.7	3.4	2.5	.21	.18	.41
10	3.8	.42	.80	.28	.40	.93	5.1	3.1	6.1	.20	.18	.41
11	5.0	.38	1.7	.32	.39	.66	6.5	2.8	3.5	.43	.17	.32
12	1.2	.36	1.8	.34	.52	.61	8.0	2.7	2.0	.40	.14	.29
13	.70	.32	1.1	.37	.95	.57	7.7	2.4	1.3	.32	.17	.28
14	.55	.28	.77	.43	2.5	.55	10	2.3	.99	.28	.13	.32
15	.45	.25	.54	.52	6.0	.54	7.8	5.4	.90	.30	.13	.27
16	.42	.36	.57	.47	3.5	.60	9.1	5.7	1.5	.28	.13	.24
17	.40	.30	.51	.43	1.4	6.9	13	4.8	2.2	.28	.13	.23
18	.52	.25	.47	.40	.77	13	14	3.9	1.2	.18	.17	.26
19	.34	.30	.43	.39	.60	7.9	15	4.0	.85	.17	.15	.23
20	.40	.28	.40	.38	.47	4.3	11	3.5	.71	.14	.14	.28
21	.34	.30	.37	.42	.40	2.3	8.5	4.1	.70	.17	.14	.25
22	.68	.30	.35	.41	.36	3.7	8.2	3.3	.79	.27	.14	.21
23	.43	.28	.34	.40	.34	39	8.2	2.1	1.3	.20	.13	.21
24	.34	.28	.75	.40	.33	18	8.3	1.9	1.3	.14	.13	.20
25	.40	.25	.83	.48	.32	9.3	7.6	1.6	1.1	.17	.13	.23
26	.54	.32	.56	.76	.33	5.3	6.4	1.6	.95	.23	.13	.25
27	.62	.32	.47	.60	.33	3.7	5.4	1.4	.82	.20	.17	.27
28	.52	.34	.41	.46	.35	3.3	4.9	1.3	.64	.25	.23	.25
29	.42	.34	.36	.40	.36	6.6	4.9	1.1	.59	.27	.17	.27
30	.34	1.7	.32	.37	------	6.5	4.8	.98	.50	.21	.15	.37
31	.60	------	.30	.35	------	4.7	------	1.3	------	.18	.13	------
TOTAL	20.24	11.79	20.58	12.22	25.52	147.35	247.6	125.98	79.54	9.50	4.89	13.66
MEAN	.65	.39	.66	.39	.88	4.75	8.25	4.06	2.65	.31	.16	.46
MAX	5.0	1.7	1.8	.76	6.0	39	15	19	22	.75	.23	4.6
MIN	.09	.23	.30	.25	.32	.40	3.7	.98	.50	.14	.13	.13
CFSM	.70	.42	.71	.42	.95	5.11	8.87	4.37	2.85	.33	.17	.49
IN.	.81	.47	.82	.49	1.02	5.89	9.90	5.04	3.18	.38	.20	.55

CAL YR 1971 TOTAL 557.59 MEAN 1.53 MAX 21 MIN .09 CFSM 1.65 IN 22.30
WTR YR 1972 TOTAL 718.87 MEAN 1.96 MAX 39 MIN .09 CFSM 2.11 IN 28.75

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	2000	2.31	30	5-08	0645	2.56	45
3-23	0930	2.64	50	6-01	0915	2.60	47
5-04	0200	2.41	36				

Reservoirs in Kennebec River basin

01038500 **BRASSUA LAKE** on Moose River, 4 miles southwest of Rockwood, Maine, completed in 1928, for power, has usable capacity of 8,560,000,000 cu ft between elevations 1,043.0 and 1,073.0 ft. Elevation record furnished by Kennebec Water Power Co.

01040000 **FIRST ROACH POND** on Roach River, at Kokadjo, Maine, used for power, has usable capacity of 938,000,000 cu ft between gage heights 1.0 and 8.0 ft. Gage-height record furnished by Kennebec Water Power Co.

01040500 **MOOSEHEAD LAKE** on Kennebec River (see p. 52).

01041500 **INDIAN POND** on Kennebec River, in T. 1, R. 6, Maine, 13 miles downstream from east outlet of Moosehead Lake, completed in 1954 for power, has capacity of 830,000,000 cu ft in normal operating range between elevations 950.0 and 955.0 ft (total capacity of pond, 3,150,000,000 cu ft below elevation 955.0 ft). Elevation record furnished by Central Maine Power Co.

01042000 **MOXIE POND** on Moxie Stream, 4.8 miles east of The Forks, Maine, used for power, has usable capacity of 640,000,000 cu ft between gage heights 6.0 and 14.0 ft. Gage-height record furnished by Kennebec Water Power Co.

01043000 **FLAGSTAFF LAKE** on Dead River, in T. 3, R. 4, Maine, 0.8 mile upstream from Black Brook, completed in 1950 for power, has usable capacity of 12,050,000,000 cu ft between elevations 1,110.0 and 1,146.0 ft. Elevation record furnished by Kennebec Water Power Co.

01044500 **SPENCER LAKE** on Little Spencer Stream, in T. 3, R. 5, Maine, 4 miles upstream from mouth, used for power, has usable capacity of 639,000,000 cu ft between gage heights 3.4 and 12.0 ft. Gage-height record furnished by Kennebec Water Power Co.

01045500 **WYMAN POND** on Kennebec River, 1.5 miles upstream from Bingham, Maine, completed in 1930 for power, has capacity of 2,630,000,000 cu ft in normal operating range between elevations 465.0 and 485.0 ft (total capacity of pond, 9,080,000,000 cu ft below elevation 485.0 ft). Elevation record furnished by Central Maine Power Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	BRASSUA LAKE	FIRST ROACH POND	INDIAN POND	MOXIE POND	FLAGSTAFF LAKE	SPENCER LAKE	WYMAN POND
SEPT. 30, 1971	7,429	570	2,665	332	4,189	205	8,900
OCT. 31	4,834	0	3,276	0	3,594	0	8,870
NOV. 30	1,684	0	2,970	0	2,636	0	8,990
DEC. 31	107	0	2,885	0	1,620	0	9,000
JAN. 31, 1972	61	0	2,970	0	656	0	8,860
FEB. 29	92	0	2,970	0	184	0	8,790
MAR. 31	138	0	2,698	0	385	0	8,020
APR. 30	637	0	3,168	0	2,223	0	9,000
MAY 31	8,980	842	3,294	676	12,131	639	9,060
JUNE 30	9,238	938	3,186	685	12,131	595	8,900
JULY 31	9,195	897	3,186	658	12,213	553	8,860
AUG. 31	8,938	870	3,024	694	11,414	553	8,930
SEPT. 30	8,560	828	3,240	130	9,922	0	8,860

Note.--Indian and Wyman Pond contents at 2400 on day shown. All others at 0700 on first day of following month.

01052500 Diamond River near Wentworth Location, N. H.

LOCATION.--Lat 44°52'40", long 71°03'25", Coos County, on left bank 1.0 mile upstream from mouth and 1.6 miles north of Wentworth Location.

DRAINAGE AREA.--153 sq mi.

RECORDS AVAILABLE.--July 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage 1,275 ft (from topographic map).

AVERAGE DISCHARGE.--31 years, 339 cfs (30.09 inches per year).

EXTREMES.--Current year: Maximum discharge 5,060 cfs May 4 (gage height, 8.47 ft); minimum, 29 cfs Sept. 24-26 (gage height, 1.39 ft).

Period of record: Maximum discharge 8,630 cfs June 16, 1943 (gage height, 10.66 ft), from rating curve extended above 3,900 cfs; minimum 6.8 cfs Aug. 27, 28, 1949, Sept. 1, 1952 (gage height, 0.81 ft).

REMARKS. -Records excellent except those for winter period, which are fair.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	98	72	85	77	54	149	2,130	438	218	228	70
2	58	98	73	82	74	56	164	2,570	1,100	193	190	63
3	66	122	72	80	76	57	162	2,450	924	257	304	60
4	65	118	72	80	85	58	154	3,680	504	763	1,100	59
5	59	109	69	82	82	58	148	4,450	522	381	494	75
6	64	100	66	81	78	58	147	2,740	388	251	304	71
7	266	150	65	78	73	57	141	3,340	368	198	241	56
8	183	200	63	77	69	56	137	3,350	374	187	250	52
9	132	135	61	76	66	55	137	2,630	427	307	221	79
10	196	96	60	75	63	54	135	2,310	756	357	205	74
11	954	87	90	75	62	54	139	1,960	729	1,080	257	58
12	508	80	270	74	61	54	142	1,680	481	474	189	50
13	304	74	260	76	60	54	158	1,660	353	284	169	46
14	226	70	215	85	64	53	154	2,630	283	219	148	55
15	190	66	180	140	82	52	177	3,860	246	193	129	62
16	167	64	160	135	76	52	167	3,580	439	169	112	53
17	151	62	145	120	71	55	189	3,130	346	204	102	46
18	139	61	130	105	67	90	369	3,060	247	199	124	41
19	130	60	120	100	65	410	760	2,810	210	158	289	38
20	124	70	115	110	62	360	1,210	2,360	182	228	198	39
21	118	82	120	100	61	275	925	1,980	169	318	132	37
22	111	76	110	95	59	215	701	1,750	154	639	104	35
23	106	65	100	92	58	190	659	1,230	182	291	89	32
24	100	58	100	91	57	170	630	1,000	313	186	96	29
25	118	59	105	92	56	160	687	759	417	226	133	29
26	182	64	115	100	56	150	629	566	405	577	229	30
27	185	72	120	100	55	145	590	476	512	832	116	31
28	150	73	115	97	55	140	502	433	375	679	153	34
29	128	71	110	92	54	135	653	385	337	793	144	33
30	113	70	96	86	------	130	1,160	316	234	446	101	34
31	103	------	90	81	------	130	------	294	------	296	80	------
TOTAL	5,459	2,610	3,539	2,842	1,924	3,637	12,075	65,569	12,415	11,603	6,631	1,471
MEAN	176	87.0	114	91.7	66.3	117	403	2,115	414	374	214	49.0
MAX	954	200	270	140	85	410	1,210	4,450	1,100	1,080	1,100	79
MIN	58	58	60	74	54	52	135	294	154	158	80	29
CFSM	1.15	.57	.75	.60	.43	.76	2.63	13.8	2.71	2.44	1.40	.32
IN.	1.33	.63	.86	.69	.47	.88	2.94	15.94	3.02	2.82	1.61	.36

CAL YR 1971 TOTAL 110,158 MEAN 302 MAX 3,570 MIN 24 CFSM 1.97 IN 26.78
WTR YR 1972 TOTAL 129,775 MEAN 355 MAX 4,450 MIN 29 CFSM 2.32 IN 31.55

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-04	2400	8.47	5,060	5-15	2100	7.85	4,200

01053500 Androscoggin River at Errol, N. H.

LOCATION.--Lat 44°46'57", long 71°07'46", Coos County, on right bank 0.4 mile downstream from Errol Dam, 0.4 mile northeast of Errol, and 0.6 mile upstream from Clear Stream.

DRAINAGE AREA.--1,045 sq mi.

PERIOD OF RECORD.--January 1905 to current year. Monthly discharge only October 1922 to November 1943, published in WSP 1301. Prior to 1922, published as "at Errol Dam."

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft above mean sea level. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

AVERAGE DISCHARGE.--67 years, 1,878 cfs (24.41 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,110 cfs May 8 (gage height, 5.40 ft); minimum daily, 1,020 cfs May 19.

Period of record: Maximum daily discharge, 16,100 cfs May 22, 1969; minimum daily, leakage only at various times when gates in dam were closed.

Instantaneous maximum discharge not available prior to Dec. 9, 1943.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (see p. 74) with final regulation at Errol Dam.

COOPERATION.--Records prior to Dec. 9, 1943, furnished by Union Water Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,800	1,730	1,370	1,260	1,380	1,310	1,050	2,240	1,490	2,560	2,290	2,150
2	1,730	1,680	1,470	1,350	1,360	1,300	1,140	2,900	1,300	2,450	2,250	2,150
3	1,810	1,660	1,460	1,330	1,310	1,220	1,140	3,530	1,560	2,150	2,220	2,160
4	1,820	1,680	1,420	1,250	1,310	1,160	1,160	4,260	1,900	1,820	1,930	2,150
5	1,810	1,680	1,450	1,270	1,310	1,260	1,240	5,170	2,800	1,840	1,840	2,150
6	1,790	1,660	1,470	1,300	1,350	1,290	1,270	5,590	2,180	2,020	2,070	2,150
7	1,700	1,500	1,380	1,290	1,380	1,300	1,300	5,610	1,720	2,030	2,230	2,150
8	1,670	1,620	1,320	1,270	1,360	1,270	1,290	5,910	1,630	2,020	2,270	2,150
9	1,660	1,560	1,310	1,320	1,390	1,300	1,300	6,020	1,940	2,170	2,230	2,120
10	1,520	1,590	1,290	1,270	1,410	1,310	1,320	5,500	2,680	2,190	2,200	2,100
11	1,260	1,590	1,210	1,290	1,320	1,290	1,310	5,370	3,380	2,390	2,110	2,110
12	1,390	1,600	1,210	1,320	1,330	1,290	1,300	4,910	3,440	1,840	2,100	2,110
13	1,540	1,560	1,130	1,320	1,330	1,290	1,310	4,550	3,340	1,860	2,080	2,090
14	1,640	1,540	1,150	1,310	1,330	1,300	1,100	4,270	3,320	1,960	2,070	2,050
15	1,660	1,560	1,230	1,260	1,310	1,320	1,040	3,940	3,050	2,060	2,030	2,030
16	1,580	1,560	1,180	1,330	1,310	1,350	1,130	4,200	2,830	2,130	2,070	2,060
17	1,640	1,540	1,050	1,380	1,330	1,230	1,160	4,740	2,330	2,100	2,120	2,100
18	1,730	1,540	1,030	1,380	1,300	1,090	1,250	4,500	1,980	2,060	2,110	2,120
19	1,770	1,540	1,160	1,330	1,260	1,020	1,330	4,640	1,980	2,110	2,070	2,150
20	1,770	1,530	1,260	1,300	1,300	1,400	1,460	5,340	2,020	2,180	2,080	2,140
21	1,770	1,530	1,250	1,290	1,420	1,820	1,560	5,330	2,020	2,070	2,140	2,120
22	1,770	1,470	1,330	1,220	1,380	1,620	1,640	5,260	2,300	1,930	2,120	2,120
23	1,730	1,500	1,470	1,230	1,370	1,410	1,660	5,120	2,400	2,080	2,120	2,110
24	1,720	1,540	1,280	1,250	1,380	1,240	1,670	3,270	1,640	2,220	2,100	2,100
25	1,730	1,470	1,110	1,350	1,320	1,120	1,710	1,660	1,720	2,220	2,050	2,100
26	1,560	1,550	1,170	1,410	1,300	1,130	1,730	1,730	2,440	2,110	1,990	2,140
27	1,560	1,530	1,200	1,420	1,350	1,160	1,720	1,810	2,750	2,120	2,060	2,110
28	1,600	1,500	1,160	1,450	1,360	1,180	1,710	1,820	2,530	2,110	2,060	2,200
29	1,670	1,410	1,130	1,370	1,350	1,220	1,700	1,760	2,640	2,060	2,050	2,130
30	1,720	1,370	1,210	1,440	------	1,260	1,850	1,680	2,640	2,150	2,080	2,070
31	1,750	------	1,250	1,360	------	1,110	------	1,640	------	2,240	2,110	------
TOTAL	51,870	46,790	39,150	40,920	38,900	39,570	41,550	124,260	69,950	65,250	65,250	63,590
MEAN	1,673	1,560	1,263	1,320	1,341	1,276	1,385	4,008	2,332	2,105	2,105	2,120
MAX	1,820	1,730	1,470	1,450	1,420	1,820	1,850	6,020	3,440	2,560	2,290	2,200
MIN	1,260	1,370	1,030	1,220	1,260	1,020	1,040	1,640	1,300	1,820	1,840	2,030
MEAN*	793	440	559	335	419	701	2,596	12,080	2,529	2,076	701	-43
CFSM*	.76	.42	.54	.32	.40	.67	2.48	11.6	2.42	1.99	.67	-.04
IN. *	.88	.47	.62	.37	.43	.77	2.77	13.33	2.70	2.29	.77	-.05

CAL YR 1971 TOTAL 645,751 MEAN 1,769 MAX 4,700 MIN 991 MEAN* 1,608 CFSM* 1.54 IN* 20.89
WTR YR 1972 TOTAL 687,050 MEAN 1,877 MAX 6,020 MIN 1,020 MEAN* 1,946 CFSM* 1.86 IN* 25.35

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.
Note.--Negative figures of adjusted discharge and runoff indicate evaporation and seepage exceeded inflow.

01054000 Androscoggin River near Gorham, N. H.

LOCATION.--Lat 44°26'10", long 71°11'27", Coos County, on right bank at Puslifer Rips, 2.2 miles downstream from Dead River and 4.0 miles upstream from Gorham.

DRAINAGE AREA.--1,363 sq mi.

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1922 to February 1929, published in WSP 1301. Prior to October 1928, published as "at Berlin."

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft above mean sea level. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 miles upstream at different datum.

AVERAGE DISCHARGE.--59 years, 2,437 cfs (24.28 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,400 cfs May 8 (gage height, 8.00 ft); minimum daily, 1,480 cfs Dec. 19.

Period of record: Maximum daily discharge, 20,000 cfs June 18, 1917, Apr. 30, 1923; minimum daily, 795 cfs Mar. 15, 1948.

REMARKS.--Records excellent. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes (see p. 74) with final regulation at Errol Dam 35 miles upstream. Diurnal fluctuation caused by powerplant 0.8 mile upstream.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,900	1,980	1,650	1,560	1,650	1,660	1,630	5,890	2,180	2,930	2,410	2,210
2	1,850	1,950	1,600	1,590	1,690	1,670	1,680	7,540	2,530	2,820	2,400	2,250
3	1,860	1,930	1,760	1,770	1,680	1,690	1,810	8,570	2,670	2,780	2,440	2,250
4	1,940	1,920	1,660	1,670	1,660	1,550	1,740	10,100	2,100	3,030	2,540	2,250
5	1,930	1,940	1,630	1,620	1,610	1,560	1,850	10,800	3,210	2,640	2,290	2,240
6	1,930	1,870	1,700	1,570	1,540	1,650	1,860	9,770	3,340	2,400	2,150	2,230
7	2,010	1,940	1,740	1,620	1,660	1,630	1,860	10,100	2,640	2,380	2,350	2,230
8	1,930	1,990	1,730	1,600	1,670	1,630	1,790	11,000	2,240	2,320	2,430	2,240
9	1,790	1,990	1,590	1,570	1,630	1,610	1,770	9,860	2,360	2,280	2,420	2,260
10	1,860	1,870	1,640	1,740	1,690	1,640	1,810	8,990	3,110	2,420	2,450	2,190
11	2,400	1,870	1,600	1,630	1,710	1,610	1,820	8,150	4,020	3,510	2,360	2,170
12	2,120	1,860	1,660	1,680	1,650	1,600	1,860	7,560	4,090	3,280	2,290	2,190
13	1,930	1,830	1,740	1,690	1,670	1,640	1,940	6,890	3,900	2,450	2,230	2,160
14	1,910	1,750	1,600	1,750	1,740	1,590	1,970	6,990	3,760	2,350	2,220	2,150
15	1,930	1,770	1,570	1,720	1,700	1,660	1,750	7,320	3,690	2,330	2,180	2,100
16	1,810	1,760	1,740	1,690	1,710	1,650	1,740	7,820	3,380	2,430	2,140	2,090
17	1,800	1,760	1,770	1,730	1,690	1,780	1,980	7,810	3,430	2,400	2,170	2,130
18	1,940	1,740	1,580	1,760	1,700	1,830	2,390	7,240	2,610	2,370	2,230	2,170
19	1,920	1,820	1,480	1,840	1,640	1,910	2,990	6,480	2,360	2,350	2,230	2,230
20	1,940	1,710	1,650	1,750	1,600	1,860	3,680	7,170	2,340	2,390	2,180	2,210
21	1,950	1,770	1,760	1,710	1,590	2,360	3,590	7,000	2,280	2,550	2,210	2,170
22	1,940	1,760	1,630	1,660	1,730	2,460	3,400	6,750	2,320	2,640	2,210	2,220
23	1,910	1,710	1,660	1,620	1,630	2,220	3,490	6,320	2,990	2,380	2,220	2,150
24	1,870	1,700	1,820	1,660	1,680	2,050	3,610	5,750	2,760	2,420	2,250	2,160
25	1,920	1,680	1,660	1,700	1,680	1,830	3,730	3,500	2,480	2,440	2,230	2,150
26	2,130	1,620	1,590	1,720	1,630	1,700	3,690	2,410	2,770	2,460	2,140	2,170
27	2,040	1,710	1,630	1,650	1,620	1,740	3,560	2,360	3,440	2,400	2,130	2,180
28	1,910	1,800	1,660	1,780	1,660	1,660	3,310	2,360	3,200	2,420	2,230	2,200
29	1,940	1,760	1,590	1,790	1,670	1,710	3,550	2,310	2,990	2,380	2,230	2,270
30	1,870	1,720	1,550	1,680	------	1,740	4,370	2,170	3,020	2,290	2,220	2,200
31	1,910	------	1,590	1,750	------	1,770	------	2,090	------	2,380	2,210	------
TOTAL	60,090	54,480	51,230	52,270	48,180	54,660	76,220	209,070	88,210	78,620	70,390	65,820
MEAN	1,938	1,816	1,653	1,686	1,661	1,763	2,541	6,744	2,940	2,536	2,271	2,194
MAX	2,400	1,990	1,820	1,840	1,740	2,460	4,370	11,000	4,090	3,510	2,540	2,270
MIN	1,790	1,620	1,480	1,560	1,540	1,550	1,630	2,090	2,100	2,280	2,130	2,090
MEAN*	1,058	696	949	701	739	1,188	3,752	14,810	3,137	2,507	867	31
CFSM*	.78	.51	.70	.51	.54	.87	2.75	10.9	2.30	1.84	.64	.02
IN. *	.89	.57	.80	.59	.58	1.01	3.07	12.53	2.57	2.12	.73	.03

CAL YR 1971 TOTAL 834,820 MEAN 2,287 MAX 8,660 MIN 1,480 MEAN* 2,126 CFSM* 1.56 IN* 21.15
WTR YR 1972 TOTAL 909,240 MEAN 2,484 MAX 11,000 MIN 1,480 MEAN* 2,553 CFSM* 1.87 IN* 25.49

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, on left bank 20 ft upstream from highway bridge on U.S. Route 2, 1,800 ft upstream from mouth, and 0.4 mile west of Gilead.

DRAINAGE AREA.--69.5 sq mi.

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 683.10 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 155 cfs (30.29 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,780 cfs May 7 (gage height, 6.40 ft); maximum gage height, 7.97 ft Mar. 18 (backwater from ice); minimum discharge, 15 cfs part or all of each day Oct. 4, 5, Sept. 24-26.

Period of record: Maximum discharge, 12,500 cfs Nov. 3, 1966 (gage height, 12.49 ft); minimum, 7.6 cfs July 16, 1971 (gage height, 1.89 ft).

Flood of October 24, 1959 reached a stage of 15.6 ft, from floodmarks (discharge, 18,100 cfs).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses and water temperatures for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	47	42	27	31	39	86	1,290	583	149	53	28
2	17	46	41	27	29	42	120	1,390	466	131	48	26
3	16	46	37	29	28	63	135	1,140	273	268	61	26
4	15	46	35	31	36	61	125	1,550	189	683	76	30
5	15	45	33	30	50	57	116	1,490	216	234	53	28
6	17	42	32	29	42	52	110	1,160	159	166	43	24
7	66	104	32	28	36	48	104	1,810	167	132	40	22
8	40	128	33	28	33	51	105	1,240	152	122	44	22
9	29	88	33	28	31	48	95	901	160	100	90	36
10	395	67	37	30	30	44	94	674	179	92	243	36
11	534	52	54	32	30	40	101	589	158	257	90	27
12	146	45	90	35	31	37	112	564	125	126	64	23
13	94	41	86	40	40	36	140	750	106	95	54	21
14	76	39	72	75	78	35	131	1,060	94	86	45	23
15	67	37	58	130	100	34	127	1,360	86	82	42	24
16	59	36	48	110	82	35	136	1,010	82	69	38	21
17	53	36	50	70	68	150	266	928	88	73	34	20
18	49	35	45	82	57	400	433	826	75	63	37	19
19	47	35	35	74	51	160	538	715	72	114	67	18
20	45	37	37	64	46	110	607	568	66	223	44	18
21	44	40	41	55	43	90	407	668	65	186	35	18
22	43	39	37	50	41	80	350	546	118	208	31	18
23	41	36	30	45	40	120	380	396	820	105	28	17
24	39	33	31	43	38	110	477	338	1,050	81	28	15
25	49	32	33	42	37	98	541	258	528	76	28	15
26	120	34	36	42	37	90	472	205	410	81	42	15
27	83	36	38	41	36	82	371	182	313	86	33	19
28	67	37	36	40	36	77	341	170	208	76	159	19
29	57	38	32	39	36	75	548	153	188	141	84	17
30	52	41	29	37	------	72	893	135	145	86	46	22
31	49	------	28	34	------	73	------	133	------	64	34	------
TOTAL	2,443	1,418	1,301	1,467	1,273	2,509	8,461	24,199	7,341	4,455	1,814	667
MEAN	78.8	47.3	42.0	47.3	43.9	80.9	282	781	245	144	58.5	22.2
MAX	534	128	90	130	100	400	893	1,810	1,050	683	243	36
MIN	15	32	28	27	28	34	86	133	65	63	28	15
CFSM	1.13	.68	.60	.68	.63	1.16	4.06	11.2	3.53	2.07	.84	.32
IN.	1.31	.76	.70	.79	.68	1.34	4.53	12.95	3.93	2.38	.97	.36

CAL YR 1971 TOTAL 46,550.7 MEAN 128 MAX 2,710 MIN 8.0 CFSM 1.84 IN 24.92
WTR YR 1972 TOTAL 57,348.0 MEAN 157 MAX 1,810 MIN 15 CFSM 2.26 IN 30.70

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	2115	6.21	2,550	7-03	2315	5.41	1,710
5-07	1745	6.40	2,780				

01054300 Ellis River at South Andover, Maine

LOCATION.--Lat 44°35'37", long 70°44'01", Oxford County, on left bank 100 ft upstream from covered bridge, at South Andover.

DRAINAGE AREA.--131 sq mi.

PERIOD OF RECORD.--February 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.00 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--9 years, 231 cfs (23.95 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,800 cfs May 8 (gage height, 15.25 ft); minimum, 14 cfs Sept. 28, 29.

Period of record: Maximum discharge, 5,630 cfs Dec. 29, 1969 (gage height, 19.23 ft); minimum, 14 cfs part or all of each day Sept. 19-22, 1966, Aug. 19-21, 1970, Sept. 28, 29, 1972.

REMARKS.--Records excellent except those for winter period, whicn are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	56	61	48	52	79	185	1,860	247	140	75	38
2	22	55	60	50	50	88	200	2,380	376	126	69	34
3	22	75	60	53	47	94	220	2,160	301	130	86	33
4	22	75	63	56	53	92	240	2,580	238	610	108	34
5	22	68	59	55	65	93	232	2,600	247	354	88	35
6	22	62	60	52	75	86	220	1,960	206	234	71	33
7	54	70	65	50	71	84	205	2,300	188	182	63	30
8	54	123	65	48	63	81	183	2,280	178	166	62	28
9	41	91	65	47	57	79	166	1,740	170	138	59	29
10	43	74	65	46	52	77	163	1,400	208	119	57	30
11	335	67	75	46	50	76	171	1,160	284	228	55	27
12	164	63	110	49	50	74	193	988	212	216	52	26
13	93	59	105	55	52	74	249	880	166	156	50	23
14	71	54	99	54	56	73	251	1,120	142	133	45	24
15	62	53	80	64	70	74	264	1,410	130	121	42	24
16	56	54	76	62	170	80	264	1,440	119	102	40	23
17	52	48	80	58	155	100	350	1,330	118	99	38	23
18	49	47	68	56	135	190	572	1,200	103	91	36	22
19	50	47	59	54	115	500	869	972	94	87	41	20
20	47	51	61	54	100	375	1,070	785	89	158	40	20
21	47	54	62	54	92	310	859	712	87	182	34	18
22	46	52	56	53	86	260	750	634	85	260	32	18
23	46	46	48	53	82	290	798	494	189	152	29	16
24	45	51	51	56	78	355	789	411	320	111	35	16
25	46	47	54	59	75	335	1,000	334	440	101	38	16
26	103	56	56	62	74	290	942	276	346	109	39	15
27	119	58	55	68	73	250	792	244	332	119	39	15
28	84	57	52	66	72	220	656	219	240	105	60	14
29	71	56	50	62	72	200	821	198	193	140	65	14
30	63	60	47	59	------	185	1,220	172	154	103	47	16
31	59	------	47	56	------	175	------	156	------	84	41	------
TOTAL	2,033	1,829	2,004	1,705	2,242	5,336	14,894	36,395	6,202	5,056	1,636	714
MEAN	65.6	61.0	64.6	55.0	77.3	172	496	1,174	207	163	52.8	23.8
MAX	335	123	110	68	170	500	1,220	2,600	440	610	108	38
MIN	22	46	47	46	47	73	163	156	85	84	29	14
CFSM	.50	.47	.49	.42	.59	1.31	3.79	8.96	1.58	1.24	.40	.18
IN.	.58	.52	.57	.48	.64	1.52	4.23	10.34	1.76	1.44	.46	.20

CAL YR 1971 TOTAL 70,699 MEAN 194 MAX 3,340 MIN 18 CFSM 1.48 IN 20.08
WTR YR 1972 TOTAL 80,046 MEAN 219 MAX 2,600 MIN 14 CFSM 1.67 IN 22.73

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-08	0200	15.25	2,800				

01054500 Androscoggin River at Rumford, Maine

LOCATION.--Lat 44°32'33", long 70°32'50", Oxford County, on left bank at upper powerplant of Rumford Falls Power Co. in Rumford, and 1.2 miles upstream from Swift River.

DRAINAGE AREA.--2,067 sq mi.

PERIOD OF RECORD.--May 1892 to current year. Monthly discharge only October 1903 to September 1904, published in WSP 1301.

GAGE.--Nonrecording gages in pond above dam and in tailrace of upper plant. Prior to Aug. 1, 1937, nonrecording gages in pond and tailrace of middle plant.

AVERAGE DISCHARGE.--80 years, 3,669 cfs (24.10 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum daily discharge, 23,200 cfs May 5; minimum daily, 1,440 cfs Nov. 26.
Period of record: Maximum discharge, 74,000 cfs Mar. 20, 1936; minimum daily, 625 cfs Mar. 27, 1911.

REMARKS.--Discharge computed from flow over upper dam and through wheels. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes (see p. 74) with final regulation at Errol Dam about 84 miles upstream.

COOPERATION.--Records furnished by Rumford Falls Power Co.

REVISIONS.--WSP 1001: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,020	2,210	1,810	1,660	1,780	1,870	2,960	15,500	3,900	3,470	2,670	2,360
2	2,000	2,190	1,530	1,560	1,740	1,930	3,140	17,800	4,980	3,390	2,660	2,380
3	1,910	2,220	1,760	1,760	1,730	1,970	3,300	19,100	4,290	4,390	2,720	2,570
4	2,020	2,180	1,870	1,880	1,740	1,950	3,230	22,200	3,610	7,560	2,750	2,620
5	2,030	2,180	1,710	1,790	1,720	1,870	3,150	23,200	3,700	4,870	2,730	2,440
6	2,100	2,170	1,640	1,690	1,700	1,850	3,360	20,300	4,240	3,530	2,460	2,340
7	2,310	2,340	1,880	1,670	1,700	1,810	3,060	21,100	3,710	3,250	2,540	2,290
8	2,240	2,640	1,930	1,680	1,700	1,910	2,930	22,000	3,350	3,160	2,630	2,290
9	2,040	2,450	1,870	1,680	1,730	1,870	3,000	18,700	3,240	2,970	2,780	2,380
10	2,530	2,270	1,840	1,820	1,680	1,810	2,890	15,800	3,800	3,030	3,130	2,360
11	5,220	2,200	1,940	1,870	1,810	1,860	3,030	13,600	4,840	3,620	2,810	2,290
12	3,410	2,160	2,000	1,840	1,790	1,780	3,150	12,300	4,840	4,350	2,590	2,290
13	2,640	2,160	2,020	1,870	1,730	1,780	3,280	11,400	4,380	3,270	2,530	2,280
14	2,370	2,040	1,880	1,910	1,890	1,810	3,290	12,600	4,070	2,970	2,450	2,340
15	2,370	1,960	1,790	1,930	1,990	1,750	3,190	14,800	3,940	2,860	2,420	2,220
16	2,180	1,910	1,870	1,810	2,000	1,920	3,160	14,700	3,690	2,900	2,320	2,220
17	2,140	1,910	2,020	1,630	1,940	2,200	4,100	14,300	3,670	2,980	2,330	2,200
18	2,170	2,110	1,900	1,840	1,930	6,540	6,520	13,100	3,230	2,800	2,430	2,260
19	2,170	2,010	1,510	1,920	1,900	6,600	8,460	11,700	2,900	2,710	2,530	2,340
20	2,230	1,930	1,710	1,930	1,700	4,010	10,000	10,800	2,760	3,270	2,410	2,310
21	2,220	1,750	1,760	1,860	1,760	3,450	8,380	11,100	2,740	3,360	2,360	2,260
22	2,190	1,730	1,770	1,820	1,680	3,960	7,580	10,300	2,710	3,800	2,390	2,260
23	2,160	1,720	1,460	1,820	1,800	4,560	7,820	8,800	4,680	3,110	2,330	2,230
24	2,060	1,670	1,740	1,820	1,830	4,960	8,590	7,820	6,840	2,920	2,380	2,190
25	2,210	1,620	1,920	1,800	1,840	3,850	9,610	5,490	5,550	2,940	2,420	2,220
26	2,530	1,440	1,690	1,760	1,870	3,390	9,150	3,680	4,450	2,980	2,460	2,210
27	2,540	1,760	1,830	1,690	1,740	3,150	7,850	3,390	4,900	3,040	2,360	2,320
28	2,390	1,980	1,810	1,660	1,820	3,000	7,010	3,290	4,460	3,040	2,680	2,210
29	2,210	1,960	1,800	1,820	1,840	2,940	8,530	3,220	3,870	3,240	2,680	2,330
30	2,170	1,810	1,760	1,830	------	3,000	11,800	3,140	3,560	2,840	2,480	2,360
31	2,130	------	1,630	1,780	------	2,910	------	2,940	------	2,680	2,390	------
TOTAL	72,910	60,680	55,650	55,400	52,080	88,260	165,520	388,170	120,900	105,300	78,820	69,370
MEAN	2,352	2,023	1,795	1,787	1,796	2,847	5,517	12,520	4,030	3,397	2,543	2,312
MAX	5,220	2,640	2,020	1,930	2,000	6,600	11,800	23,200	6,840	7,560	3,130	2,620
MIN	1,910	1,440	1,460	1,560	1,680	1,750	2,890	2,940	2,710	2,680	2,320	2,190
MEAN*	1,472	903	1,091	802	874	2,272	6,728	20,590	4,227	3,368	1,139	149
CFSM*	.71	.44	.53	.39	.42	1.10	3.25	9.96	2.04	1.63	.55	.07
IN. *	.82	.49	.61	.45	.46	1.27	3.63	11.48	2.28	1.88	.64	.08

CAL YR 1971 TOTAL 1,256,270 MEAN 3,442 MAX 27,100 MIN 1,440 MEAN* 3,281 CFSM* 1.59 IN* 21.54
WTR YR 1972 TOTAL 1,313,060 MEAN 3,588 MAX 23,200 MIN 1,440 MEAN* 3,657 CFSM* 1.77 IN* 24.09

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, and Aziscohos Lakes.

ANDROSCOGGIN RIVER BASIN

01055000 Swift River near Roxbury, Maine

LOCATION.--Lat 44°38'32", long 70°35'17", Oxford County, on left bank 0.2 miles downstream from Philbrick Brook, 2.1 miles downstream from Roxbury, and 7.2 miles upstream from mouth.

DRAINAGE AREA.--95.8 sq mi.

PERIOD OF RECORD.--June 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 615.67 ft above mean sea level.

AVERAGE DISCHARGE.--43 years, 193 cfs (27.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,990 cfs May 7 (gage height, 6.08); minimum, 13 cfs Oct. 2, 3, 5, 6, Sept. 29 (gage height, 1.17 ft).
Period of record: Maximum discharge, 16,800 cfs Oct. 24, 1959 (gage height, 12.87 ft), from rating curve extended above 7,000 cfs; minimum, 3.8 cfs Sept. 16, 17, 1948 (gage height, 0.93 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 801: 1934 (M). WSP 1031: Drainage area. WSP 1301: 1937-38 (M), 1942 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	45	44	37	32	37	111	1,550	565	126	88	33
2	14	53	48	39	30	42	143	1,380	585	116	75	30
3	14	89	45	46	29	45	155	1,490	341	351	186	31
4	14	78	40	44	32	42	136	1,940	219	898	181	54
5	14	67	37	42	36	40	130	1,870	216	289	117	40
6	16	56	38	40	39	40	123	1,340	160	186	85	31
7	92	95	40	39	37	38	116	1,980	145	146	72	26
8	55	146	39	38	34	38	120	1,540	147	165	82	25
9	36	84	38	38	32	38	108	1,190	164	274	77	35
10	136	69	41	39	31	36	99	984	284	150	104	33
11	583	61	50	39	30	35	109	876	325	936	84	25
12	165	57	90	44	30	35	133	790	193	335	65	21
13	94	53	73	44	31	36	163	852	140	198	58	20
14	69	42	62	57	54	35	150	1,340	114	156	50	27
15	58	40	57	52	170	35	148	2,130	101	131	44	29
16	50	38	54	45	80	37	150	1,440	109	108	38	24
17	44	37	58	40	57	80	238	1,380	113	126	35	21
18	40	36	52	41	48	600	408	1,340	83	104	44	19
19	38	35	40	45	45	440	662	1,110	78	113	89	18
20	37	36	42	44	43	255	687	918	68	282	55	18
21	36	39	48	42	41	150	438	967	67	222	40	17
22	35	37	45	39	39	120	398	795	71	258	34	16
23	34	35	41	40	37	180	442	570	306	134	30	15
24	31	34	41	42	35	150	497	498	579	94	36	14
25	36	33	43	41	36	130	618	363	559	149	43	14
26	200	33	48	40	35	120	545	265	398	274	117	14
27	132	34	46	37	35	110	442	235	298	191	57	15
28	85	36	44	35	35	105	391	250	200	264	168	14
29	66	38	42	35	35	98	592	231	189	309	100	14
30	55	40	40	35	------	117	959	189	136	159	55	16
31	49	------	38	33	------	106	------	177	------	111	40	------
TOTAL	2,342	1,575	1,464	1,272	1,248	3,370	9,411	31,980	6,953	7,355	2,349	709
MEAN	75.5	52.5	47.2	41.0	43.0	109	314	1,032	232	237	75.8	23.6
MAX	583	146	90	57	170	600	959	2,130	585	936	186	54
MIN	14	33	37	33	29	35	99	177	67	94	30	14
CFSM	.79	.55	.49	.43	.45	1.14	3.28	10.8	2.42	2.47	.79	.25
IN.	.91	.61	.57	.49	.48	1.31	3.65	12.42	2.70	2.86	.91	.28

CAL YR 1971 TOTAL 56,142.9 MEAN 154 MAX 3,370 MIN 9.8 CFSM 1.61 IN 21.80
WTR YR 1972 TOTAL 70,028.0 MEAN 191 MAX 2,130 MIN 14 CFSM 1.99 IN 27.19

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-01	2200	5.73	2,580	5-07	2000	6.08	2,990

01055500 Nezinscot River at Turner Center, Maine

LOCATION.--Lat 44°16'10", long 70°13'49", Androscoggin County, on left bank 500 ft upstream from upper highway bridge at Turner Center, and 3.6 miles upstream from mouth.

DRAINAGE AREA.--171 sq mi.

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.29 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--31 years, 291 cfs (23.11 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,390 cfs May 4 (gage height, 5.00 ft); maximum gage height, 5.42 ft Mar. 24 (backwater from ice); minimum discharge, 25 cfs Oct. 4 (gage height, 1.08 ft).
Period of record: Maximum discharge, 13,900 cfs Mar. 27, 1953 (gage height, 11.18 ft); minimum, 5.6 cfs Aug. 29, 1956 (gage height, 0.72 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	75	80	53	63	92	350	1,370	543	251	175	95
2	28	73	89	53	59	105	370	1,440	995	255	145	80
3	27	73	77	54	58	110	475	1,510	766	217	130	88
4	25	75	68	58	60	105	610	2,170	525	539	175	604
5	27	71	62	63	65	100	675	2,100	452	654	178	690
6	42	66	59	60	84	99	610	1,540	344	435	140	450
7	53	72	57	56	81	96	550	1,170	274	290	119	316
8	57	104	60	55	73	94	500	978	242	219	112	230
9	59	117	60	54	67	92	475	814	215	180	105	196
10	85	98	60	59	64	90	470	664	276	157	114	208
11	272	89	66	58	61	88	520	546	379	206	155	164
12	302	83	75	58	60	87	600	468	329	220	130	132
13	206	79	100	58	60	86	710	407	261	179	107	112
14	153	73	115	59	120	86	740	363	207	163	94	110
15	127	65	100	65	210	88	790	383	166	155	83	111
16	111	62	94	72	245	93	850	482	162	139	74	101
17	98	60	97	76	210	120	1,170	508	203	166	67	91
18	89	60	89	75	170	295	1,600	476	181	248	66	84
19	83	60	78	72	135	750	1,960	455	155	215	77	77
20	80	62	72	69	120	850	2,070	437	141	187	82	74
21	75	64	68	67	110	730	1,800	418	134	184	70	70
22	71	64	65	65	105	600	1,570	378	133	227	61	65
23	67	58	62	64	97	1,150	1,570	332	198	233	54	59
24	63	53	60	63	92	1,400	1,570	294	356	183	50	54
25	67	58	64	69	90	1,250	1,730	242	436	153	49	52
26	113	56	66	80	87	900	1,710	208	438	355	61	50
27	133	60	64	90	85	650	1,480	187	371	443	75	51
28	120	65	60	86	84	510	1,220	166	301	344	166	48
29	103	67	56	80	84	425	1,160	146	278	325	227	46
30	93	67	55	74	------	430	1,250	132	236	385	167	51
31	91	------	54	67	------	390	------	134	------	290	120	------
TOTAL	2,932	2,129	2,232	2,032	2,903	11,961	31,155	20,918	9,697	8,197	3,428	4,559
MEAN	94.6	71.0	72.0	65.5	100	386	1,039	675	323	264	111	152
MAX	302	117	115	90	245	1,400	2,070	2,170	995	654	227	690
MIN	25	53	54	53	58	86	350	132	133	139	49	46
CFSM	.55	.42	.42	.38	.58	2.26	6.08	3.95	1.89	1.54	.65	.89
IN.	.64	.46	.49	.44	.63	2.60	6.78	4.55	2.11	1.78	.75	.99

CAL YR 1971 TOTAL 85,752 MEAN 235 MAX 2,760 MIN 24 CFSM 1.37 IN 18.65
WTR YR 1972 TOTAL 102,143 MEAN 279 MAX 2,170 MIN 25 CFSM 1.63 IN 22.22

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	0800	4.76	2,110	5-04	1900	5.00	2,390

01057000 Little Androscoggin River near South Paris, Maine

LOCATION.--Lat 44°17'08", long 70°32'16", Oxford County, on right bank 30 ft upstream from Biscoe Falls, 5 miles upstream from South Paris.

DRAINAGE AREA.--76.2 sq mi.

PERIOD OF RECORD.--September 1913 to April 1924, October 1931 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.48 ft above mean sea level. Prior to Apr. 30, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--51 years (1913-23, 1931-72), 136 cfs (24.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,250 cfs May 4 (gage height, 6.18 ft); minimum, 7.0 cfs Oct. 5, 6 (gage height, 1.64 ft).

Period of record: Maximum discharge, 8,000 cfs Mar. 27, 1953 (gage height, 12.41 ft), from rating curve extended above 2,800 cfs, verified by computation of flow over dam at South Paris; minimum, 1 cfs Aug. 16, 1914, Feb. 22 to Mar. 5, 1920.

REMARKS.--Records excellent. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 1301: 1915-23 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	31	39	26	31	47	220	861	564	85	63	35
2	8.6	30	34	26	30	53	282	915	475	75	50	27
3	7.8	30	33	31	26	65	311	940	289	83	57	32
4	7.6	30	34	31	28	64	309	1,150	204	509	72	212
5	7.0	27	29	31	38	61	292	940	180	274	53	139
6	7.3	25	26	29	45	58	264	736	139	186	41	87
7	9.6	36	29	26	39	49	241	623	119	131	35	63
8	11	85	29	26	32	53	214	541	109	103	36	48
9	11	62	27	27	31	50	198	419	112	80	33	61
10	22	47	29	32	27	44	200	333	155	68	190	62
11	235	41	38	30	26	44	222	272	192	150	109	43
12	129	37	66	32	25	45	255	237	136	108	70	36
13	79	36	65	32	26	45	317	214	102	77	56	30
14	58	32	54	36	60	43	314	200	82	88	44	38
15	45	27	46	41	116	44	323	226	72	71	37	38
16	39	26	44	37	115	48	343	289	70	57	31	32
17	35	26	46	34	91	82	509	336	86	63	27	28
18	31	26	41	33	83	275	776	259	68	58	31	25
19	27	26	31	33	70	449	890	220	61	48	69	22
20	26	30	33	33	63	311	905	198	57	76	49	20
21	24	31	35	32	59	257	719	198	55	76	36	18
22	24	30	31	32	61	224	655	176	56	111	30	16
23	22	26	26	31	55	531	697	142	123	68	25	15
24	20	22	27	30	53	643	706	122	196	52	22	14
25	26	22	31	33	51	460	841	103	230	44	20	13
26	71	28	32	42	49	352	772	93	192	225	22	13
27	61	31	31	43	49	276	639	83	165	186	23	13
28	49	31	29	41	47	233	541	73	123	120	138	14
29	41	31	25	42	46	218	611	65	103	195	108	13
30	36	38	24	38	------	233	740	57	78	134	65	15
31	32	------	25	36	------	216	------	90	------	85	43	------
TOTAL	1,211.9	1,000	1,089	1,026	1,472	5,573	14,306	11,111	4,593	3,686	1,685	1,222
MEAN	39.1	33.3	35.1	33.1	50.8	180	477	358	153	119	54.4	40.7
MAX	235	85	66	43	116	643	905	1,150	564	509	190	212
MIN	7.0	22	24	26	25	43	198	57	55	44	20	13
CFSM	.51	.44	.46	.43	.67	2.36	6.26	4.70	2.01	1.56	.71	.53
IN.	.59	.49	.53	.50	.72	2.72	6.98	5.42	2.24	1.80	.82	.60

CAL YR 1971 TOTAL 41,005.5 MEAN 112 MAX 1,850 MIN 2.9 CFSM 1.47 IN 20.02
WTR YR 1972 TOTAL 47,974.9 MEAN 131 MAX 1,150 MIN 7.0 CFSM 1.72 IN 23.42

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-04	1000	6.18	1,250				

01058500 Little Androscoggin River near Auburn, Maine

LOCATION.--Lat 44°03'49", long 70°16'28", Androscoggin County, on right bank 100 ft upstream from highway bridge at Littlefields, 3 miles southwest of Auburn, and 4.6 miles upstream from mouth.

DRAINAGE AREA.--328 sq mi.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 215 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 548 cfs (22.69 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,320 cfs May 5 (gage height, 6.64 ft); minimum daily, 100 cfs Dec. 31.

Period of record: Maximum discharge, 16,500 cfs Mar. 28, 1953 (gage height, 14.76 ft); minimum daily, 14 cfs Oct. 14, 1949.

Maximum discharge known, 16,800 cfs Mar. 20, 1936, at mouth of river.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Thompson Lake (see p. 74), and several powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	198	191	105	120	205	1,350	2,180	795	510	439	270
2	111	189	200	105	115	210	1,490	2,190	1,380	456	348	213
3	109	179	192	105	115	220	1,630	2,300	1,400	404	296	205
4	105	159	159	110	120	225	1,760	2,900	1,190	523	277	529
5	107	145	138	120	140	245	1,790	3,270	1,080	907	283	809
6	115	135	122	115	165	240	1,740	3,090	933	831	262	709
7	129	141	123	110	170	230	1,590	2,620	811	663	236	565
8	127	169	125	105	160	220	1,440	2,210	709	569	217	457
9	121	238	124	105	140	215	1,330	1,840	620	466	206	412
10	165	256	131	110	130	210	1,290	1,530	719	370	237	387
11	389	212	159	110	125	205	1,310	1,330	801	391	277	350
12	476	183	193	105	125	200	1,330	1,180	742	425	299	318
13	452	166	201	110	125	200	1,430	1,060	708	402	262	285
14	381	151	218	120	140	200	1,540	943	626	414	225	277
15	323	140	212	125	380	205	1,650	946	564	416	201	263
16	288	131	205	130	430	230	1,770	1,030	517	373	182	248
17	268	124	191	125	410	350	1,990	1,090	504	311	170	238
18	246	122	188	120	365	690	2,340	1,140	486	316	166	224
19	231	123	163	120	320	930	2,790	1,080	449	306	181	208
20	219	127	145	115	295	1,080	3,200	990	383	278	194	188
21	209	127	130	115	270	1,130	3,180	964	347	278	198	174
22	203	128	120	115	250	1,040	2,900	917	336	310	180	165
23	194	123	115	115	240	1,600	2,730	811	444	322	163	153
24	186	114	110	110	230	2,000	2,700	716	619	285	151	145
25	191	114	115	130	220	2,300	2,760	631	758	263	143	142
26	236	119	120	150	215	2,150	2,810	527	807	380	137	142
27	255	144	120	145	210	1,860	2,690	473	750	476	144	147
28	271	152	120	135	205	1,600	2,430	437	737	518	207	146
29	255	138	115	130	205	1,470	2,210	404	730	484	409	142
30	231	175	105	125	------	1,420	2,160	375	549	552	443	145
31	213	------	100	120	------	1,340	------	355	------	562	365	------
TOTAL	6,917	4,622	4,650	3,660	6,135	24,420	61,330	41,529	21,494	13,761	7,498	8,656
MEAN	223	154	150	118	212	788	2,044	1,340	716	444	242	289
MAX	476	256	218	150	430	2,300	3,200	3,270	1,400	907	443	809
MIN	105	114	100	105	115	200	1,290	355	336	263	137	142
MEAN*	159	125	150	118	235	887	2,117	1,326	723	430	207	216
CFSM*	.48	.38	.46	.36	.72	2.70	6.45	4.04	2.20	1.31	.63	.66
IN. *	.56	.43	.53	.42	.77	3.11	7.20	4.66	2.46	1.51	.73	.74

CAL YR 1971 TOTAL 166,537 MEAN 456 MAX 3,410 MIN 67 MEAN* 452 CFSM* 1.38 IN* 18.74
WTR YR 1972 TOTAL 204,672 MEAN 559 MAX 3,270 MIN 100 MEAN* 557 CFSM* 1.70 IN* 23.12

*Adjusted for change in contents in Thompson Lake.

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, on right bank 1.5 miles downstream from Little Androscoggin River and 2.1 miles downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 sq mi.

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1301.

GAGE.--Water-stage recorder. Datum of gage is 109.18 ft above mean sea level.

AVERAGE DISCHARGE.--44 years, 5,979 cfs (24.93 inches per year), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 35,600 cfs May 5 (gage height, 11.38 ft); minimum daily, 591 cfs Sept. 24.

Period of record: Maximum discharge, 135,000 cfs Mar. 20, 1936 (gage height, 27.57 ft), from rating curve extended above 76,000 cfs on basis of slope-area measurement of peak flow and computation of flow over dam; minimum daily, 340 cfs Sept. 28, 1941.

REMARKS.--Records excellent. Considerable diurnal fluctuation and some regulation by powerplants above station. Flow regulation by Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes, and Gulf Island Pond (see p. 74) with major regulation at Errol Dam 136 miles upstream. Records of chemical analyses for the water year 1972 are published in Part 2 of this report

REVISIONS (WATER YEARS).--WSP 781: 1930, 1933-34. WSP 1301: 1932-36.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,090	3,360	3,990	802	3,080	3,620	7,940	21,600	6,800	6,600	5,060	4,480
2	1,730	3,530	3,380	789	2,490	3,420	8,040	26,000	8,350	5,770	4,860	2,240
3	631	3,560	2,540	2,630	2,510	3,690	8,490	28,300	9,150	5,710	4,050	785
4	3,140	3,590	1,060	3,130	2,780	2,550	8,870	33,000	8,250	7,330	4,850	4,030
5	3,070	3,400	643	3,140	2,030	830	9,010	34,600	7,500	11,200	3,560	6,230
6	3,000	2,080	2,820	3,160	715	2,850	8,970	33,300	7,400	8,140	2,400	4,920
7	3,140	629	2,830	3,140	2,690	3,630	8,620	31,000	7,050	7,170	3,840	5,890
8	3,160	3,120	2,840	1,670	3,060	3,600	8,250	31,300	7,460	5,920	4,270	5,130
9	2,120	4,220	2,850	713	3,100	3,600	7,810	30,300	6,860	4,640	4,510	2,540
10	685	4,190	3,550	2,660	3,090	3,560	7,110	26,300	7,440	4,890	4,650	1,190
11	3,710	4,110	2,270	2,590	2,570	2,290	7,020	22,600	7,460	5,750	4,380	3,480
12	7,440	3,900	753	3,230	1,320	902	7,530	20,300	7,190	5,830	3,190	4,170
13	5,230	2,100	3,060	2,640	750	2,790	8,270	17,800	7,960	6,090	1,160	4,570
14	4,950	667	3,590	3,110	3,360	3,530	8,460	17,100	7,400	6,330	3,750	4,700
15	4,520	2,990	3,930	1,950	3,720	3,530	9,710	19,100	7,170	5,610	4,270	3,860
16	3,340	3,260	3,690	755	3,850	3,700	9,330	21,700	6,060	3,740	4,380	2,260
17	875	3,140	3,230	2,880	4,290	3,960	10,400	20,900	6,630	4,250	4,150	825
18	3,450	2,960	2,030	3,120	4,570	2,900	13,800	20,600	6,320	5,530	4,030	3,090
19	4,030	3,030	1,280	3,140	2,660	6,660	18,100	18,900	5,310	5,510	1,650	3,550
20	3,470	1,790	3,990	2,760	1,290	9,050	20,700	16,900	5,600	5,650	656	3,270
21	4,060	625	3,610	3,420	3,520	8,210	20,200	16,200	5,500	5,460	3,210	3,340
22	3,920	2,740	3,080	2,950	3,310	8,100	19,200	16,300	5,480	4,360	3,700	3,520
23	1,750	3,160	2,900	718	3,300	11,000	17,700	14,700	5,620	4,120	3,620	2,260
24	611	3,360	1,710	2,550	3,230	12,300	17,400	13,200	5,590	4,450	3,990	591
25	1,190	772	679	3,070	3,510	12,600	19,300	12,000	7,630	5,200	3,690	2,720
26	3,560	3,220	676	3,390	2,550	11,100	19,400	9,110	6,960	5,670	2,300	3,630
27	3,940	1,560	2,690	3,150	1,060	9,540	18,400	7,620	7,790	5,660	796	3,630
28	4,710	686	3,160	3,100	3,170	8,690	16,100	6,670	5,770	6,520	4,010	3,620
29	4,180	2,750	3,200	1,960	3,650	8,200	15,200	6,600	7,800	5,710	4,070	3,310
30	2,450	3,910	3,360	755	------	7,930	17,500	6,550	7,160	3,330	5,560	2,020
31	882	------	2,670	2,640	------	7,760	------	5,000	------	6,520	4,070	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	7,440	4,220	3,990	3,420	4,570	12,600	20,700	34,600	9,150	11,200	5,560	6,230
MIN	611	625	643	713	715	830	7,020	5,000	5,310	3,330	656	591
MEAN*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.*	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1971 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN* [illegible] CFSM* [illegible] IN* [illegible]
WTR YR 1972 TOTAL [illegible] MEAN [illegible] MAX [illegible] MIN [illegible] MEAN* [illegible] CFSM* [illegible] IN* [illegible]

*Adjusted for change in contents in Rangeley, Mooselookmeguntic, Richardson, Umbagog, Aziscohos, Auburn, and Thompson Lakes and Gulf Island Pond.

Reservoirs in Androscoggin River basin

01050500 **RANGELEY LAKE** on Rangeley Stream, at Oquossoc, Maine, used for power, has usable capacity of 1,339,200,000 cu ft in top 4 ft of lake (top of flashboards). Gage-height record furnished by Union Water Power Co.

01051000 **MOOSELOOKMEGUNTIC LAKE** at Upper Dam, in Richardson Township, Maine, used for power, has usable capacity of 8,370,000,000 cu ft between gage heights 8.3 and 20.5 ft. Gage-height record furnished by Union Water Power Co.

01051500 **UPPER AND LOWER RICHARDSON LAKES** on Rapid River, at Middle Dam, Maine, used for power, has usable capacity of 5,691,500,000 cu ft between gage heights 3.0 and 20.5 ft. Gage-height record furnished by Union Water Power Co.

01052000 **AZISCOHOS LAKE** on Magalloway River, in Lincoln Township, 3 miles east of village of Wilsons Mills, Maine, completed in 1911 for power, has usable capacity of 9,593,000,000 cu ft between elevations 1,490.0 and 1,535.0 ft. Elevation record furnished by Union Water Power Co.

01053000 **UMBAGOG LAKE** on Androscoggin River, at Errol Dam, 0.6 mile northeast of Errol, N. H., used for power, has usable capacity of 3,080,160,000 cu ft between gage heights 5.5 and 15.0 ft. Gage-height record furnished by Union Water Power Co.

01056000 **GULF ISLAND POND** on Androscoggin River, 3 miles upstream from Lewiston, Maine, completed in 1928 for power, has capacity of 1,100,000,000 cu ft in top 10 ft of pond below elevation 262.0 ft. Elevation record furnished by Central Maine Power Co.

01056500 **LAKE AUBURN** on outlet stream to Androscoggin River, at East Auburn, Maine, used for storing water supply of Auburn and Lewiston, has usable capacity of 580,000,000 cu ft between elevations 254.7 and 260.7 ft. Elevation record furnished by Auburn Water District.

01058000 **THOMPSON LAKE** on short outlet stream to Little Androscoggin River, at Oxford, Maine, used for power and process water, has usable capacity of 950,000,000 cu ft between gage heights 95.0 and 100.1 ft. Gage-height record furnished by Robinson Manufacturing Co.

MONTHEND CONTENTS, IN MILLIONS OF CUBIC FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	RANGELEY LAKE	MOOSELOOKMEGUNTIC LAKE	UPPER AND LOWER RICHARDSON LAKES	AZISCOHOS LAKE	UMBAGOG LAKE
SEPT. 30, 1971	894	4,334	3,603	5,577	1,958
OCT. 31	670	3,110	2,868	5,442	1,920
NOV. 30	375	1,898	2,467	4,916	1,452
DEC. 31	84	1,532	1,745	4,610	1,252
JAN. 31, 1972	0	435	1,215	4,260	676
FEB. 29	0	31	395	3,060	790
MAR. 31	0	186	550	1,408	592
APR. 30	251	1,299	1,614	1,800	910
MAY 31	1,339	8,370	5,691	9,469	2,612
JUNE 30	1,339	8,298	5,672	9,779	2,904
JULY 31	1,366	8,298	5,633	9,818	2,807
AUG. 31	1,256	7,044	4,956	8,920	1,977
SEPT. 30	754	5,231	3,622	6,982	1,958

DATE	GULF ISLAND POND	LAKE AUBURN	THOMPSON LAKE
SEPT. 30, 1971	2,177	306	1,723
OCT. 31	2,448	364	1,552
NOV. 30	2,372	320	1,476
DEC. 31	2,107	310	1,476
JAN. 31, 1972	2,355	300	1,476
FEB. 29	2,344	353	1,533
MAR. 31 . . .	2,363	500	1,799
APR. 30	2,476	592	1,909
MAY 31	2,326	616	1,951
JUNE 30	2,417	616	1,970
JULY 31	2,407	556	1,932
AUG. 31	2,078	496	1,837
SEPT. 30	2,204	452	1,687

Note.--Contents of Gulf Island Pond at 2400, Thompson Lake at 0800. Contents of all others at 0700 on first day of following month.

01059800 Collyer Brook near Gray, Maine

LOCATION.--Lat 43°55'03", long 70°19'02", Cumberland County, 50 ft downstream from U.S. Highway 202, 2.4 miles northeast of Gray, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--13.9 sq mi.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 23.8 cfs (23.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 315 cfs Mar. 23 (gage height, 2.53 ft); maximum gage height, 4.30 ft Feb. 14 (backwater from ice); minimum daily discharge, 6.6 cfs Jan. 24, Feb. 2, 3, 11, 12.
Period of record: Maximum discharge, 1,220 cfs Dec. 27, 1969 (gage height, 3.48 ft); maximum gage height 4.30 ft Feb. 14, 1972 (backwater from ice); minimum daily discharge, 6.4 cfs Jan. 29, 1966.

REMARKS.--Records good except those for winter period, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	12	22	11	6.7	8.5	52	32	64	20	17	13
2	12	11	19	10	6.6	13	55	31	41	16	14	12
3	12	12	16	9.6	6.6	15	57	43	26	15	15	21
4	12	13	14	8.8	6.9	13	70	124	21	14	15	45
5	12	12	13	9.1	12	10	51	57	26	13	13	19
6	12	12	12	7.7	10	9.6	44	41	19	13	13	14
7	13	12	14	7.4	8.7	13	36	35	24	13	13	13
8	12	13	12	7.2	7.6	12	30	30	23	13	13	12
9	12	13	11	7.1	6.9	11	29	28	22	13	13	13
10	28	12	16	7.0	6.7	10	33	27	26	12	14	13
11	39	12	25	6.9	6.6	10	36	24	28	17	13	12
12	17	12	23	6.8	6.6	9.6	47	23	19	15	13	11
13	14	12	17	6.8	6.9	9.4	47	22	17	14	13	11
14	13	12	16	11	80	9.2	55	21	16	15	13	14
15	13	12	19	14	51	9.1	55	44	14	14	13	13
16	12	12	15	11	33	9.0	60	40	14	14	12	12
17	11	11	16	10	22	40	80	39	16	13	12	12
18	12	11	15	8.9	16	113	88	31	14	13	13	11
19	12	11	11	8.1	13	78	88	29	13	12	13	11
20	11	11	9.7	7.6	12	53	85	26	13	13	12	11
21	11	11	9.1	7.1	11	30	60	29	13	14	12	11
22	11	12	8.9	6.8	9.6	97	53	25	19	16	11	11
23	11	12	9.9	6.7	9.2	297	47	30	30	12	11	11
24	11	14	8.4	6.6	8.9	120	55	18	27	11	11	9.6
25	13	11	12	6.8	8.9	93	52	17	29	16	11	10
26	17	16	11	15	8.9	41	46	17	20	30	11	11
27	16	13	9.8	11	8.8	39	40	16	18	16	17	11
28	13	13	9.0	9.9	9.1	27	36	15	16	15	21	10
29	12	13	8.2	9.9	9.6	40	35	14	15	21	19	10
30	12	12	9.8	7.2	------	45	33	15	16	28	12	11
31	14	------	9.5	8.9	------	30	------	17	------	18	12	------
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MEAN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAX	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
CFSM	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
IN.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CAL YR 1971 [illegible]
WTR YR 1972 [illegible]

PEAK DISCHARGE [illegible]

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01060000 Royal River at Yarmouth, Maine

LOCATION.--Lat 43°47'57", long 70°10'45", Cumberland County, on right bank 150 ft upstream from lower highway bridge, in Yarmouth.

DRAINAGE AREA.--142 sq mi.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (from topographic map).

AVERAGE DISCHARGE.--23 years, 264 cfs (25.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,840 cfs Mar. 23 (gage height, 5.06 ft); minimum daily, 24 cfs Sept. 30.

Period of record: Maximum discharge, 7,960 cfs Sept. 12, 1954 (gage height, 7.12 ft); minimum, 4.4 cfs Oct. 17, 18, 1962 (gage height, 0.71 ft).

REMARKS.--Records excellent except those for winter period, which are fair. Some diurnal fluctuation at low flow caused by mill above station. Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	56	449	71	59	96	587	361	517	158	55	38
2	38	56	309	74	56	115	842	378	1,090	154	50	37
3	39	59	178	78	53	150	1,010	536	562	123	49	43
4	37	69	125	79	68	180	1,160	1,250	315	106	50	249
5	36	68	99	77	120	165	1,210	1,160	297	97	46	210
6	36	63	78	74	110	140	1,010	711	254	87	44	101
7	37	64	82	65	90	125	689	481	242	82	42	74
8	39	75	90	64	76	130	504	380	294	76	42	61
9	34	77	91	65	70	170	452	327	259	71	42	57
10	102	67	113	68	63	165	456	295	310	68	45	47
11	466	63	220	66	58	155	551	268	504	65	46	59
12	307	62	356	66	54	150	563	235	345	69	43	56
13	156	61	286	68	65	140	691	211	231	77	41	50
14	112	57	223	87	270	130	782	199	173	71	38	63
15	91	53	170	99	265	125	987	300	146	68	37	60
16	76	53	154	85	215	125	1,050	554	132	68	35	55
17	69	49	175	72	190	160	1,100	513	136	68	33	49
18	60	51	166	65	159	900	1,130	398	125	65	34	42
19	57	52	179	63	140	1,310	1,110	312	111	62	38	37
20	56	54	96	62	125	1,140	1,060	271	105	63	42	34
21	96	97	88	60	115	900	911	303	101	70	40	31
22	93	90	85	59	110	905	740	283	106	66	38	29
23	93	97	75	59	105	2,990	704	225	192	64	37	27
24	92	69	84	63	98	3,430	730	185	245	62	36	26
25	97	99	127	80	94	1,980	714	157	292	73	35	25
26	93	92	125	110	62	1,180	597	141	233	66	35	25
27	98	91	104	93	61	750	500	132	189	62	35	26
28	90	96	91	81	60	598	429	120	175	61	44	25
29	90	99	83	79	61	566	395	112	165	62	60	25
30	93	107	77	69	------	761	376	104	162	75	69	24
31	90	------	69	66	------	636	------	98	------	63	62	------
TOTAL	2,427	2,113	4,666	2,256	3,150	20,413	23,035	11,000	7,952	2,422	1,307	1,605
MEAN	78.3	70.4	150	72.8	109	658	768	355	265	78.1	42.2	53.5
MAX	466	107	449	110	270	3,430	1,210	1,250	1,090	158	69	249
MIN	34	49	69	59	53	96	376	98	101	61	33	24
CFSM	.55	.50	1.06	.51	.77	4.64	5.41	2.50	1.87	.55	.30	.38
IN.	.64	.55	1.22	.59	.83	5.35	6.04	2.88	2.08	.63	.34	.42

CAL YR 1971 TOTAL [illegible] MEAN 227 MAX 2,590 MIN 34 CFSM 1.56 IN 21.21
WTR YR 1972 TOTAL [illegible] MEAN 226 MAX 3,430 MIN 24 CFSM 1.59 IN 21.66

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-23	[illegible]	5.06	3,840				

01064000 Presumpscot River at outlet of Sebago Lake, Maine

LOCATION.--Lat 43°49'03", long 70°27'01", Cumberland County, at dam of hydroelectric plant at Eel Weir Falls, 1.0 mile downstream from lake outlet.

DRAINAGE AREA.--436 sq mi.

PERIOD OF RECORD.--January 1887 to current year.

GAGES.--Nonrecording gages in forebay and tailrace of hydroelectric plant at Eel Weir Falls and at dam on outlet of Sebago Lake.

AVERAGE DISCHARGE.--85 years, 654 cfs (20.37 inches per year), unadjusted.

REMARKS.--Discharge computed from wheel ratings and from records of openings of two regulating gates at Eel Weir hydroelectric plant. Water wasted at rare intervals through gates in dam on outlet of Sebago Lake; flow computed from records of gate openings. Water diverted by Portland Water District and leakage through dam, totaling about 40 cfs, not included in figures of daily discharge. Flow regulated by Long Pond and Sebago Lake (surface area 45.6 sq mi), which have a combined usable capacity of 11,000,000,000 cu ft.

COOPERATION.--Records furnished by S. D. Warren Co.

REVISIONS (WATER YEARS).--WSP 261: Drainage area. WSP 1301: 1920-50 (adjusted monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	655	648	525	327	328	343	259	518	831	0	806	806
2	655	648	400	327	328	337	259	518	831	0	819	806
3	648	539	407	312	328	337	263	527	831	0	819	806
4	648	524	400	314	332	337	263	527	818	0	819	806
5	655	524	400	332	332	337	263	844	831	0	806	806
6	670	495	400	332	332	337	263	798	831	0	806	806
7	670	539	400	332	332	337	263	818	831	0	819	806
8	670	525	408	333	332	342	263	831	811	0	819	818
9	670	525	408	333	332	337	263	819	831	0	806	818
10	670	706	408	333	332	342	263	818	831	806	831	818
11	670	538	400	333	328	342	263	831	831	830	806	831
12	655	538	400	337	328	342	268	831	831	818	819	831
13	655	525	407	332	328	342	263	818	819	831	819	831
14	655	525	400	332	328	342	263	818	831	819	806	806
15	638	538	400	332	332	342	263	818	831	831	819	806
16	655	525	400	332	332	342	263	818	831	831	819	819
17	655	525	400	332	328	342	263	818	831	831	819	819
18	655	525	400	332	332	342	263	831	831	831	806	806
19	655	525	400	328	332	342	263	831	818	819	819	806
20	648	525	408	328	328	342	263	831	818	819	819	806
21	648	525	395	332	328	342	263	831	818	819	819	806
22	648	525	400	328	328	342	423	818	806	819	819	806
23	648	525	400	328	328	160	263	831	844	819	819	806
24	648	525	327	328	328	172	263	819	819	806	819	800
25	648	400	327	328	465	172	263	819	819	819	819	800
26	648	407	327	332	338	172	263	831	831	819	819	806
27	648	457	400	332	342	263	263	831	831	819	806	806
28	655	407	407	332	338	259	527	831	831	818	819	806
29	648	525	407	328	338	259	518	818	819	819	806	806
30	648	525	407	328	------	259	518	831	819	819	806	818
31	648	------	327	328	------	259	------	831	------	819	818	------
TOTAL	20,306	15,809	12,287	10,217	9,767	9,473	8,821	24,392	24,786	18,061	25,270	24,317
MEAN	655	527	396	330	337	306	294	786	826	583	815	811
MAX	670	706	525	337	465	343	527	844	844	831	831	831
MIN	648	400	327	312	328	160	259	518	806	0	806	800
MEAN*	356	-14	109	207	511	850	1,916	2,287	977	437	144	99
CFSM*	.82	-.03	.25	.48	1.17	1.95	4.39	5.15	2.24	1.00	.33	.23
IN. *	.94	-.04	.29	.55	1.26	2.25	4.90	5.94	2.50	1.15	.38	.25

CAL YR 1971 TOTAL 203,544.00 MEAN 558 MAX 966 MIN 0 MEAN* 517 CFSM* 1.19 IN* 16.04
WTR YR 1972 TOTAL 203,506.00 MEAN 556 MAX 844 MIN 0 MEAN* 654 CFSM* 1.50 IN* 20.37

*Adjusted for change in contents in Long Pond and Sebago Lake, diversion by Portland Water District, and leakage through dam.
Note.--Negative figures of adjusted discharge and runoff indicate evaporation and seepage exceeded inflow.

01064500 Saco River near Conway, N. H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, on left bank at Odell Falls, 1.8 miles downstream from Swift River and Conway.

DRAINAGE AREA.--386 sq mi.

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above mean sea level. Aug. 26, 1903, to June 30, 1912, nonrecording gage at site 0.8 mile downstream at different datum.

AVERAGE DISCHARGE.--49 years (1903-9, 1929-72), 906 cfs (31.87 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,440 cfs May 7 (gage height, 8.23 ft); minimum daily 160 cfs Jan 7, 8.

Period of record: Maximum discharge, 43,900 cfs Mar. 27, 1953 (gage height, 17.20 ft), from rating curve extended above 23,000 cfs on basis of slope-area measurement of peak flow; minimum, 40 cfs Mar. 16, 1932 (gage height, 1.61 ft).

REMARKS.--Records excellent except those for winter period, which are fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1908-9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	399	260	170	225	255	410	5,030	2,960	900	380	308
2	239	403	235	170	220	300	630	6,400	2,650	840	350	280
3	232	412	215	175	225	390	710	6,260	1,730	1,500	371	277
4	226	388	200	180	255	410	670	7,700	1,320	2,400	444	275
5	222	362	190	170	325	360	625	7,510	1,180	1,150	374	256
6	227	344	185	165	280	330	600	5,870	1,020	900	333	242
7	348	387	190	160	255	305	580	7,210	974	775	315	231
8	294	740	215	160	240	350	560	6,800	1,000	680	325	225
9	250	570	270	170	230	340	540	5,190	937	610	313	240
10	454	450	300	175	225	325	530	4,030	1,030	560	693	249
11	3,220	340	371	195	220	310	570	3,490	910	1,150	498	225
12	1,250	280	600	205	220	300	660	3,190	791	650	382	212
13	836	260	484	230	250	290	750	3,400	708	570	342	205
14	675	240	404	310	325	285	735	4,410	646	520	311	225
15	590	225	325	400	450	280	740	6,450	602	490	301	227
16	526	220	305	340	410	290	800	5,630	585	465	284	208
17	479	215	320	260	365	450	1,050	4,890	607	445	269	196
18	467	210	290	305	335	1,900	1,900	4,490	534	530	284	192
19	428	205	265	360	315	1,050	2,630	4,250	503	508	434	190
20	399	220	290	335	300	750	3,450	3,540	485	546	375	205
21	385	260	275	300	290	600	2,920	3,590	470	532	307	193
22	374	260	230	280	280	540	2,630	3,600	502	661	273	185
23	359	215	200	260	270	630	2,470	2,800	1,710	518	279	177
24	341	200	205	250	265	700	2,440	2,450	2,280	466	289	170
25	391	195	220	245	260	600	2,990	2,040	1,980	445	367	165
26	769	195	235	240	250	550	2,950	1,590	1,650	472	444	176
27	686	200	225	235	250	505	2,920	1,360	1,260	461	505	176
28	605	200	210	250	250	479	2,210	1,320	1,130	460	1,290	175
29	663	210	195	245	250	455	2,400	1,270	1,040	577	777	167
30	610	225	180	235	------	430	3,290	1,180	990	509	654	186
31	387	------	175	230	------	419	------	1,180	------	429	559	------
TOTAL	17,185	9,030	8,264	7,405	8,035	15,178	46,350	128,310	34,184	21,719	13,122	6,438
MEAN	554	301	267	239	277	490	1,545	4,139	1,139	701	423	215
MAX	3,220	740	600	400	450	1,900	3,450	7,700	2,960	2,400	1,290	308
MIN	222	195	175	160	220	255	410	1,180	470	429	269	165
CFSM	1.44	.78	.69	.62	.72	1.27	4.00	10.7	2.95	1.82	1.10	.56
IN.	1.66	.87	.80	.71	.77	1.46	4.47	12.36	3.29	2.09	1.26	.62

CAL YR 1971 TOTAL 292,540 MEAN 801 MAX 12,300 MIN 160 CFSM 2.08 IN 28.17
WTR YR 1972 TOTAL 315,434 MEAN 862 MAX 7,700 MIN 160 CFSM 2.23 IN 30.39

PEAK DISCHARGE (BASE, 8,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-07	2000	8.23	9,440				

01065000 Ossipee River at Effingham Falls, N.H.

LOCATION.--Lat 43°47'44", long 71°03'36", Carroll County, on left bank 0.3 mile upstream from bridge on State Highway 153 at Effingham Falls, 0.35 mile downstream from outlet of Ossipee Lake, and 4 miles northwest of Effingham.

DRAINAGE AREA.--330 sq mi.

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (from topographic map).

AVERAGE DISCHARGE.--30 years, 677 cfs (27.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,620 cfs May 6 (gage height, 7.90 ft); minimum, 130 cfs Nov. 19; minimum daily, 131 cfs Nov. 20-24.

Period of record: Maximum discharge, 11,700 cfs Mar. 28, 1953 (gage height, 11.64 ft); minimum, about 5 cfs during part of several days Nov. 4-20, 1968 (caused by unusual regulation); minimum daily, 11 cfs Oct. 10, 1944.

REMARKS.--Records excellent. Flow regulated by Ossipee and Silver Lakes and Pine River Pond (combined capacity 1,430,000,000 cu ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SP
1	256	439	137	384	344	395	1,140	2,490	884	591	542	27
2	256	435	137	382	342	386	1,120	2,670	1,380	665	532	21
3	254	432	137	383	342	386	1,130	2,840	1,400	570	528	20
4	252	429	138	378	390	387	1,150	3,160	1,360	514	392	45
5	251	425	139	377	429	391	1,160	3,520	1,210	544	291	47
6	250	420	140	374	423	396	1,140	3,600	1,100	553	297	44
7	251	417	143	370	419	390	1,130	3,460	951	655	265	40
8	250	302	145	366	415	385	1,090	3,300	848	731	195	25
9	250	224	148	363	410	380	1,060	3,070	659	671	196	21
10	253	224	152	361	405	396	1,020	2,810	571	574	198	16
11	386	224	156	360	400	392	993	2,540	826	529	199	11
12	483	225	160	358	396	374	989	1,820	673	574	198	06
13	488	225	166	358	393	361	1,020	1,420	520	592	198	02
14	491	224	170	357	392	349	1,080	1,410	518	834	198	00
15	491	224	173	357	391	351	1,110	1,660	518	990	198	97
16	490	224	177	357	393	348	1,140	1,870	515	957	198	94
17	488	224	259	356	393	370	1,210	1,880	515	938	198	90
18	485	224	413	355	454	437	1,400	1,830	514	686	199	86
19	482	175	410	354	499	595	1,710	1,730	511	263	203	83
20	478	131	407	353	495	742	2,090	1,630	401	265	206	79
21	474	131	405	353	487	830	2,420	1,540	294	214	207	7
22	470	131	402	353	480	906	2,500	1,450	295	161	206	75
23	467	131	397	351	470	1,020	2,520	1,190	419	160	205	64
24	472	131	394	350	461	1,250	2,540	660	541	166	204	62
25	475	132	394	351	451	1,400	2,630	527	579	186	203	62
26	467	133	393	352	443	1,450	2,740	537	771	218	204	40
27	461	133	392	347	433	1,420	2,730	542	884	241	204	38
28	456	133	392	347	420	1,360	2,600	542	844	447	229	36
29	450	135	390	347	408	1,300	2,470	960	812	609	261	35
30	447	137	388	347	-------	1,240	2,430	532	639	987	272	35
31	443	-------	388	345	-------	1,190	-------	533	-------	962	272	-----
TOTAL	12,387	7,176	8,242	11,160	12,178	21,577	49,462	57,303	21,952	16,247	7,898	1027
MEAN	399	239	266	360	420	696	1,649	1,848	732	524	255	44
MAX	491	439	413	384	499	1,450	2,740	3,600	1,400	990	542	67
MIN	250	131	137	345	342	348	989	527	294	160	195	35

CAL YR 1971 TOTAL 198,481 MEAN 544 MAX 3,630 MIN 120 CFSM 1.65 IN 22.37
WTR YR 1972 TOTAL 235,673 MEAN 644 MAX 3,600 MIN 131 CFSM 1.95 IN 26.55

01065500 Ossipee River at Cornish, Maine

LOCATION.--Lat 43°48'26", long 70°47'55", Oxford County, on left bank 100 ft downstream from highway bridge in Cornish, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--453 sq mi.

PERIOD OF RECORD.--July 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 276.1 ft above mean sea level. Prior to Aug. 21, 1929, nonrecording gage and Aug. 21, 1929, to Sept. 30, 1942, water-stage recorder at same site and datum 1 ft higher.

AVERAGE DISCHARGE.--56 years, 860 cfs (25.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,380 cfs May 5 (gage height, 7.09 ft); minimum daily, 150 cfs Nov. 22-28.

Period of record: Maximum discharge, 17,200 cfs Mar. 21, 1936 (gage height, 16.32 ft, present datum), from rating curve extended above 7,500 cfs; minimum daily, 65 cfs Sept. 8, 1929.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by mill at Kezar Falls and by Ossipee and Silver Lakes, and Pine River, Bickford, and Colcord Ponds (combined capacity, 1,600,000,000 cu ft).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1301: 1927-29 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	491	160	500	440	535	1,570	3,170	1,360	660	627	306
2	282	489	165	495	440	525	1,620	3,310	1,970	800	602	298
3	283	489	170	490	440	520	1,690	3,510	1,820	715	604	323
4	281	484	170	490	505	520	1,680	4,220	1,700	660	570	484
5	279	475	170	490	575	515	1,660	4,340	1,570	705	369	577
6	279	468	175	485	590	510	1,630	4,310	1,340	725	358	514
7	285	472	180	480	580	505	1,580	4,110	1,250	850	369	485
8	278	464	190	490	570	500	1,490	3,870	1,060	940	293	471
9	279	286	205	475	560	495	1,430	3,670	981	830	264	452
10	314	267	215	475	550	490	1,400	3,390	801	735	293	448
11	487	266	225	470	545	485	1,420	3,100	1,030	700	276	443
12	599	264	235	470	540	480	1,440	2,620	975	745	267	434
13	567	264	240	470	530	475	1,550	1,830	726	775	264	434
14	559	261	250	470	550	465	1,620	1,790	699	1,100	256	441
15	554	261	260	465	550	460	1,680	2,020	674	1,270	257	439
16	548	255	265	465	550	455	1,790	2,540	678	1,230	237	428
17	543	264	290	460	545	485	2,040	2,550	680	1,170	249	424
18	539	251	470	460	545	580	2,450	2,390	660	830	266	405
19	533	219	520	460	610	880	2,920	2,230	647	360	259	414
20	531	160	515	460	670	1,060	3,260	2,070	621	360	255	400
21	524	155	515	460	665	1,170	3,430	1,990	440	358	248	400
22	521	150	515	460	655	1,290	3,440	1,950	428	276	257	381
23	514	150	510	455	640	1,680	3,490	1,670	547	256	247	277
24	512	150	510	455	625	2,060	3,540	1,040	776	271	245	257
25	541	150	510	450	605	2,160	3,620	753	815	271	245	255
26	550	150	510	450	585	2,120	3,590	734	885	291	243	259
27	532	150	505	450	565	2,000	3,510	729	1,050	320	245	251
28	517	150	505	450	550	1,870	3,350	719	888	382	281	251
29	505	155	505	450	545	1,780	3,220	701	750	780	292	249
30	500	160	500	445	------	1,740	3,160	680	690	727	307	253
31	494	------	500	445	------	1,640	------	718	------	666	315	------
TOTAL	14,019	8,370	10,655	14,490	16,320	30,450	70,170	72,624	28,501	20,798	9,860	11,453
MEAN	452	279	344	467	563	982	2,339	2,343	950	670	318	382
MAX	599	491	520	500	670	2,160	3,620	4,340	1,970	1,270	627	577
MIN	278	150	160	445	440	455	1,400	680	428	256	237	249

CAL YR 1971 TOTAL 261,201 MEAN 716 MAX 4,110 MIN 141 CFSM 1.58 IN 21.45
WTR YR 1972 TOTAL 307,656 MEAN 841 MAX 4,340 MIN 150 CFSM 1.86 IN 25.26

01066000 Saco River at Cornish, Maine

LOCATION.--Lat 43°48'35", long 70°46'53", Cumberland County, on left bank 300 ft upstream from highway bridge at Cornish, and 0.4 mile downstream from Ossipee River.

DRAINAGE AREA.--1,298 sq mi.

PERIOD OF RECORD.--June 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 263.48 ft above mean sea level. Prior to Oct. 30, 1919, nonrecording gage on bridge downstream at different datum.

AVERAGE DISCHARGE.--56 years, 2,655 cfs (27.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 14,800 cfs May 7 (gage height, 10.28 ft); minimum daily, 595 cfs Sept. 30.

Period of record: Maximum discharge, 45,000 cfs Mar. 21, 22, 1936 (gage height, 21.90 ft, from floodmarks); minimum daily, 245 cfs Oct. 18, 1957.

REMARKS.--Records excellent except those for winter period, which are fair. Flow partly regulated by powerplants above station and by Ossipee, Silver, Conway, and Kezar Lakes, and Moose, Hancock, Pine River, Bickford, and Colcord Ponds (combined capacity, 3,400,000,000 cu ft). Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1301: 1917-18 (M), 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,050	1,450	798	1,070	1,080	1,300	5,600	9,150	4,650	2,880	1,700	1,150
2	1,040	1,400	914	1,080	1,070	1,400	5,690	9,430	5,260	2,860	1,590	1,080
3	1,010	1,400	821	1,110	1,070	1,480	5,680	10,000	5,130	2,690	1,560	1,090
4	985	1,380	670	1,100	1,090	1,520	5,270	11,800	5,030	2,700	1,510	1,330
5	942	1,350	709	1,080	1,130	1,520	5,060	13,100	4,810	2,870	1,260	1,350
6	912	1,290	658	1,070	1,230	1,510	4,840	14,200	4,410	3,030	1,240	1,220
7	903	1,280	691	1,060	1,300	1,500	4,700	14,600	4,080	3,040	1,220	1,140
8	875	1,280	740	1,120	1,280	1,500	4,500	14,200	3,690	3,090	1,120	1,100
9	875	1,120	788	1,190	1,230	1,480	4,310	13,900	3,410	2,890	1,010	1,080
10	955	1,120	806	1,150	1,210	1,470	4,130	13,400	3,260	2,710	1,050	1,080
11	1,450	1,100	855	1,130	1,190	1,450	4,130	12,400	3,450	2,710	1,050	1,040
12	2,330	1,090	938	1,100	1,170	1,430	4,090	11,000	3,270	2,750	1,100	991
13	2,390	1,070	989	1,090	1,170	1,420	4,240	9,340	2,900	2,840	1,090	958
14	2,350	1,040	1,010	1,070	1,170	1,410	4,340	8,540	2,610	2,930	1,030	965
15	2,270	1,000	1,010	1,060	1,270	1,400	4,480	8,270	2,480	3,100	992	953
16	2,170	965	1,000	1,050	1,400	1,400	4,700	8,710	2,380	2,920	930	902
17	2,050	944	1,020	1,060	1,440	1,550	5,170	8,860	2,330	2,790	909	863
18	1,880	923	1,080	1,070	1,450	1,950	5,930	8,950	2,200	2,590	903	848
19	1,780	913	1,130	1,060	1,500	2,500	6,640	8,910	2,020	1,980	897	853
20	1,700	836	1,120	1,0[illegible]	1,520	3,200	7,460	8,680	1,960	1,800	884	845
21	1,620	808	1,110	1,060	1,480	3,900	7,980	8,450	1,700	1,750	890	840
22	1,560	830	1,100	1,060	1,400	4,500	8,350	7,940	1,630	1,640	884	817
23	1,500	794	1,090	1,060	1,360	5,700	8,810	7,420	1,820	1,580	851	662
24	1,450	768	1,060	1,070	1,320	5,950	9,190	6,460	2,330	1,560	839	600
25	1,470	759	960	1,070	1,280	5,870	9,470	5,800	2,770	1,520	792	760
26	1,490	746	1,000	1,070	1,240	5,540	9,520	5,330	3,120	1,530	781	745
27	1,520	655	1,080	1,080	1,230	5,490	9,510	4,910	3,410	1,450	786	710
28	1,580	681	1,080	1,120	1,230	5,510	9,370	4,450	3,370	1,550	807	670
29	1,570	723	1,070	1,100	1,240	5,690	9,250	4,070	3,300	2,080	981	630
30	1,530	755	1,070	1,100	-------	5,630	9,130	3,600	3,090	2,020	1,260	595
31	1,460	-------	1,070	1,090	-------	5,530	-------	3,560	-------	1,820	1,220	-------
TOTAL	46,667	30,470	29,437	33,650	36,750	91,700	191,600	279,430	95,870	73,670	33,136	27,867
MEAN	1,505	1,016	950	1,085	1,267	2,958	6,387	9,014	3,196	2,376	1,069	929
MAX	2,390	1,450	1,130	1,190	1,520	5,950	9,520	14,600	5,260	3,100	1,700	1,350
MIN	875	655	658	1,050	1,070	1,300	4,090	3,560	1,630	1,450	781	595

CAL YR 1971 TOTAL 855,722 MEAN 2,344 MAX 14,400 MIN 461 CFSM 1.81 IN 24.52

WTR YR 1972 TOTAL 970,247 MEAN 2,651 MAX 14,600 MIN 595 CFSM 2.04 IN 27.81

01066500 Little Ossipee River near South Limington, Maine

LOCATION.--Lat 43°41'22", long 70°40'15", York County, on right bank 25 ft upstream from highway bridge, 2 miles southeast of South Limington, and 5.8 miles upstream from mouth.

DRAINAGE AREA.--161 sq mi.

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (from topographic map).

AVERAGE DISCHARGE.--32 years, 286 cfs (24.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,580 cfs Mar. 25 (gage height, 4.32 ft); minimum daily, 9.3 cfs Nov. 23.

Period of record: Maximum discharge, 5,300 cfs May 10, 1954 (gage height, 6.78 ft); minimum daily, 1.7 cfs Oct. 7, 1965.

Maximum discharge known, 8,530 cfs Mar. 19, 1936, at "Ledgemere" dam 3.6 miles upstream.

REMARKS.--Records excellent except those for winter period, which are fair. Flow regulated by Little Ossipee Lake, Ledgemere and Balch Ponds (combined capacity, 581,000,000 cu ft). Records of chemical analyses for the water year 1972 are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	112	81	85	73	165	721	721	544	107	199	59
2	166	113	230	89	71	185	725	467	875	279	167	54
3	165	113	181	94	70	225	746	191	827	424	151	65
4	165	113	64	93	98	260	779	250	676	449	143	242
5	165	114	120	88	155	250	807	412	543	367	133	276
6	164	115	102	82	140	220	793	537	461	334	131	262
7	163	116	106	79	125	190	540	529	442	254	129	259
8	162	118	104	77	110	210	523	521	434	171	129	298
9	162	118	100	76	105	230	561	521	343	171	127	396
10	170	118	110	75	95	225	699	519	308	161	128	387
11	184	119	135	74	91	220	847	516	363	156	106	374
12	192	118	162	74	88	220	762	621	394	156	73	367
13	192	117	162	74	86	220	720	718	385	155	73	358
14	190	117	145	79	145	215	789	701	336	160	72	353
15	183	115	132	99	212	215	960	471	301	158	74	342
16	188	115	133	90	254	225	958	201	208	153	76	327
17	189	115	130	130	478	260	955	141	153	150	76	315
18	185	115	123	125	360	350	1,190	139	176	143	74	302
19	185	93	113	170	300	470	1,330	292	197	130	75	287
20	184	15	105	160	240	645	1,420	390	238	129	72	268
21	184	10	99	150	215	724	1,350	355	246	130	72	244
22	141	10	93	145	200	726	1,130	391	241	128	71	177
23	109	9.3	90	140	185	886	1,140	379	333	124	71	132
24	108	70	95	135	170	1,390	1,330	299	428	124	70	132
25	111	174	122	130	165	1,470	1,270	165	491	125	51	132
26	112	172	124	200	155	1,220	1,040	298	617	130	20	131
27	110	170	115	280	155	967	911	275	602	137	20	129
28	110	169	105	120	150	821	821	256	557	136	45	128
29	110	118	95	93	150	767	781	246	550	151	58	126
30	111	18	89	83	------	757	754	149	321	195	57	128
31	112	------	84	76	------	742	------	94	------	205	59	------
TOTAL	4,841	3,108.3	3,650	3,464	4,881	15,670	27,152	11,855	12,590	5,702	2,802	7,050
MEAN	156	104	118	112	168	505	905	382	420	187	90.4	235
MAX	192	174	230	280	478	1,470	1,420	721	875	449	199	396
MIN	108	9.3	64	74	70	165	523	94	153	107	20	54

CAL YR 1971 TOTAL 85,992.3 MEAN 235 MAX 1,480 MIN 9.3 CFSM 1.46 IN 19.85
WTR YR 1972 TOTAL 102,845.3 MEAN 281 MAX 1,470 MIN 9.3 CFSM 1.75 IN 23.76

MOUSAM RIVER BASIN

01069500 Mousam River near West Kennebunk, Maine

LOCATION.--Lat 43°25'04", long 70°39'32", York County, on right bank 100 ft upstream from highway bridge, 1.4 miles downstream from Middle Branch, and 4.0 miles west of West Kennebunk.

DRAINAGE AREA.--105 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 170 ft (from topographic map).

AVERAGE DISCHARGE.--33 years, 176 cfs (22.76 inches per year), unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,130 cfs Mar. 23 (gage height, 3.14 ft); minimum daily, 1.4 cfs Sept. 29.

Period of record: Maximum discharge, 2,830 cfs Sept. 12, 1954 (gage height, 5.69 ft); minimum daily, 0.4 cfs Nov. 10, 15, 16, 1964.

REMARKS.--Records excellent. Flow regulated by Square Pond and Mousam and Estes Lakes (combined capacity, about 700,000,000 cu ft) and powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	9.0	10	11	64	168	429	328	246	215	176	15
2	22	9.4	86	29	103	169	503	314	305	199	176	15
3	12	9.9	109	167	60	103	575	330	223	174	176	17
4	106	9.7	11	162	104	211	587	533	192	163	130	15
5	145	9.7	11	158	149	241	553	544	215	144	19	98
6	143	9.7	45	158	145	211	517	456	213	136	19	54
7	141	9.9	29	158	149	185	488	412	243	126	115	2.8
8	52	47	113	157	150	218	439	364	273	122	150	1.7
9	11	12	161	155	145	216	410	358	225	106	174	2.0
10	13	85	76	155	149	205	412	346	148	58	174	24
11	11	150	12	155	148	191	448	323	187	56	126	134
12	89	97	79	155	147	178	455	296	175	52	14	101
13	122	10	170	155	145	169	502	269	162	60	14	14
14	119	10	168	111	155	163	526	215	154	122	105	49
15	88	44	164	12	224	164	533	234	109	103	149	75
16	9.5	9.7	164	12	372	163	550	317	96	83	105	75
17	9.7	79	116	27	308	218	617	322	94	76	54	73
18	92	75	13	54	257	457	663	305	88	61	59	66
19	139	9.0	75	141	238	572	645	296	88	63	11	133
20	59	9.1	158	56	206	509	656	284	89	63	3.2	140
21	9.0	9.7	157	99	151	445	636	325	85	61	56	149
22	9.0	41	143	139	183	504	542	276	59	61	49	116
23	9.0	9.7	152	113	170	997	509	270	155	60	19	9.7
24	9.0	9.7	152	93	170	974	523	253	177	92	14	9.8
25	10	10	152	61	169	764	499	237	206	98	15	110
26	31	9.7	66	120	165	668	455	223	190	179	14	65
27	94	9.7	106	143	168	578	416	215	186	185	15	105
28	155	9.7	160	111	168	483	390	208	189	119	15	49
29	95	44	159	86	167	433	368	158	173	37	15	1.4
30	9.0	12	103	80	------	472	343	174	175	114	14	6.4
31	9.0	------	11	115	------	459	------	117	------	173	14	------
TOTAL	1,955.2	869.2	3,131	3,348	4,985	11,488	15,189	9,342	5,164	3,361	2,189.2	1,725.8
MEAN	63.1	29.0	101	108	172	371	506	301	172	108	70.6	57.5
MAX	155	150	170	167	372	997	663	544	305	215	176	149
MIN	9.0	9.0	10	11	60	103	343	117	85	37	3.2	1.4
MEAN*	71.1	29.0	92.0	107	199	408	527	277	177	96.0	54.6	38.5
CFSM*	.68	.28	.88	1.02	1.90	3.89	5.02	2.64	1.69	.91	.52	.37
IN. *	.78	.31	1.01	1.18	2.05	4.48	5.60	3.04	1.89	1.05	.60	.41

CAL YR 1971 TOTAL 5,836.4 MEAN 156 MAX 827 MIN 9.0 MEAN* 159 CFSM* 1.51 IN* 20.46
WTR YR 1972 TOTAL 6,747.4 MEAN 171 MAX 997 MIN 1.4 MEAN* 172 CFSM* 1.64 IN* 22.40

*Adjusted for changein contents in Square Pond and Mousam Lake. Records furnished by Town of Sanford.

01072100 Salmon Falls River at Milton, N.H.

LOCATION.--Lat 43°24'50", long 70°59'15", Strafford County, on right bank just downstream from Milton Pond, at Milton.

DRAINAGE AREA.--108 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 405 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 898 cfs Mar. 24 (gage height, 4.72 ft); minimum daily, 30 cfs Nov. 23 to Dec. 2.

Period of record: Maximum discharge, 1,730 cfs Feb. 12, 1970 (gage height, 5.49 ft); minimum daily, 19 cfs Aug. 30, Sept. 13, 1970.

REMARKS.--Records good. Flow completely regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds, combined usable capacity, 1,280,000,000 cu ft. See table below for figures of monthend contents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	182	30	76	75	107	352	503	285	375	109	86
2	128	185	30	76	72	111	370	503	555	321	109	76
3	121	185	31	76	67	238	415	503	520	265	105	78
4	117	185	31	80	81	297	440	555	450	158	100	86
5	111	185	31	81	86	265	440	631	415	158	93	96
6	105	178	31	81	93	234	440	637	395	155	88	101
7	78	178	31	80	98	208	430	579	390	111	84	95
8	51	175	33	76	100	188	405	509	390	70	81	89
9	51	169	35	76	98	182	375	455	370	76	78	88
10	51	150	37	75	96	169	357	313	339	78	76	86
11	54	128	46	70	91	161	343	201	293	84	75	81
12	57	128	58	69	84	150	343	167	195	91	70	80
13	58	123	72	69	81	140	460	135	109	93	69	78
14	57	111	76	76	101	133	450	135	119	101	64	76
15	60	100	80	80	130	130	380	135	103	98	61	76
16	60	89	84	81	164	128	415	147	95	98	60	76
17	60	66	84	83	185	142	470	198	100	98	58	76
18	63	49	84	80	185	215	573	188	98	89	58	119
19	64	49	84	76	195	313	611	175	95	83	58	150
20	69	51	84	76	188	380	671	198	89	80	58	140
21	69	51	78	76	172	405	800	230	86	75	55	155
22	72	40	75	76	155	415	824	253	91	75	54	161
23	76	30	75	75	147	579	776	253	113	78	52	145
24	76	30	72	75	137	824	744	212	230	96	52	125
25	89	30	70	76	130	848	736	145	325	111	50	142
26	111	30	72	95	128	752	720	80	297	121	51	153
27	130	30	75	78	123	592	678	57	273	117	51	161
28	150	30	78	83	113	498	579	63	158	109	51	172
29	164	30	78	84	105	455	509	70	169	105	51	198
30	172	30	78	84	------	395	509	75	325	101	80	195
31	178	------	78	76	------	352	------	81	------	98	95	------
TOTAL	2,832	2,997	1,901	2,415	3,480	10,006	15,615	8,386	7,472	3,768	2,196	3,440
MEAN	91.4	99.9	61.3	77.9	120	323	521	271	249	122	70.8	115
MAX	179	185	84	95	195	848	824	637	555	375	109	198
MIN	51	30	30	69	67	107	343	57	86	70	50	76
*	669.2	448.7	532.0	564.3	665.3	829.7	1,089.2	1,283.0	1,267.1	1,242.3	1,196.5	925.7

CAL YR 1971 TOTAL 58,249 MEAN 160 MAX 848 MIN 30
WTR YR 1972 TOTAL 64,508 MEAN 176 MAX 848 MIN 30

*Monthend contents, in millions of cubic feet, in Great East and Lovell Lakes, and Horn, Wilson, Milton, Northeast, and Town House Ponds.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1972

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		ST. JOHN RIVER BASIN					
01014700	Factory Brook near Madawaska, Me.	Lat 47°21'09", long 68°17'55", 12 ft upstream from culvert in U.S. Highway 1, half a mile upstream from mouth and 1.1 miles east of Madawaska.	5.83	1964-72	5-04-72	8.13	121
01015700	Houlton Brook near Oxbow, Me.	Lat 46°26'18", long 68°24'21", at culvert in road west from State Highway 11 to Oxbow, 1.9 miles upstream from mouth and 4.3 miles northeast of Oxbow.	5.08	1964-72	5-04-72	5.70	105
01017300	Nichols Brook near Caribou, Me.	Lat 46°51'31", long 67°56'18", at culvert in road north from Grimes Mill to State Highway 223, 300 ft upstream from mouth and 3.5 miles east of Caribou.	3.94	1964-72	5-04-72	6.46	106
		WIGGINS BROOK BASIN					
01021300	Wiggins Brook near West Lubec, Me.	Lat 44°45'26", long 67°05'23", 10 ft upstream from culvert in State Highway 191, 4.4 miles southwest of West Lubec.	5.04	1965-72	5-04-72	7.17	280
		MACHIAS RIVER BASIN					
01021600	Middle River near Machias, Me.	Lat 44°44'14", long 67°29'35", 40 ft upstream from highway bridge in connecting road between State Highway 192 and U.S. Highway 1-A, 2.2 miles northwest of Machias and 3.4 miles upstream from mouth.	8.32	1965-72	6-01-72	4.91	261
		FORBES POND BROOK BASIN					
01022700	Forbes Pond Brook near Prospect Harbor, Me.	Lat 44°24'33", long 68°01'37", on abutment of highway bridge in State Highway 186, 100 ft upstream from mouth and in the village of Prospect Harbor.	8.78	1965-72	7-01-72	4.29	313
		FROST POND BROOK BASIN					
01026800	Frost Pond Brook near Sedgwick, Me.	Lat 44°22'12", long 68°39'29", at culvert in State Highway 15 between Grays Corner and Black Corner, 700 ft upstream from mouth and 5 miles northeast of Sedgwick.	5.68	1965-72	9-04-72	6.44	215
		PENOBSCOT RIVER BASIN					
01030300	Trout Brook near Danforth, Me.	Lat 45°41'43", long 67°54'07", at culvert in State Highway between Bancroft and Danforth, 1.3 miles upstream from mouth and 3.0 miles northeast of Danforth.	6.39	1964-72	3-19-72 6-01-72	a5.00 2.78	--- 99

a Affected by backwater from ice.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		PENOBSCOT RIVER BASIN--Continued					
01030400	Gulliver Brook near Monarda, Me.	Lat 45°44'23", long 68°18'30", at culvert in U.S. Highway 2, 2,700 ft upstream from mouth and 4.1 miles south of Monarda.	11.0	1964-72	3-19-72 5-04-72	a5.47 3.00	--- 195
01034900	Coffin Brook near Lee, Me.	Lat 45°20'18", long 68°21'42", 14 ft upstream from culvert in Lee Back Road, 4 miles southwest of Lee.	2.21	1964-72	3-19-72 5-04-72	a5.34 5.11	--- 65
01037200	Cold Brook near Northern Maine Junction, Me.	Lat 44°46'39", long 68°50'59", 25 ft upstream from culvert in U.S. Highway 95, 1.1 miles upstream from mouth and 1.2 miles southeast of Northern Maine Junction.	3.06	1964-72	3-19-72 6-01-72	a6.49 6.39	--- 170
		GOOSE RIVER BASIN					
01037430	Goose River at Rockport, Me.	Lat 44°11'21", long 69°04'49", 7 ft upstream from culvert in U.S. Highway 1, 2,000 ft upstream from mouth and 0.4 mile northwest of Rockport.	8.32	1964-72	3-23-72	7.83	624
		KENNEBEC RIVER BASIN					
01041900	Mountain Brook near Lake Parlin, Me.	Lat 45°28'12", long 70°03'54", at culvert in U.S. Highway 201, 1.8 miles upstream from mouth and 3.8 miles southeast of Lake Parlin.	3.91	1964-72	5-04-72	5.17	347
01046800	South Branch Carrabassett River at Bigelow, Me.	Lat 45°04'45", long 70°19'03", at bridge in State Highway 27, 3,000 ft southeast of Bigelow.	14.2	1964-72	3-20-72 5-04-72	a9.40 6.48	--- 595
01048100	Pelton Brook near Anson, Me.	Lat 44°45'58", long 69°54'32", on wingwall of abandoned highway bridge just downstream from State Highway 43, 3,600 ft upstream from mouth and 2.4 miles southwest of Anson.	14.1	1965-72	5-04-72	6.17	740
01049100	Hall Brook at Thorndike, Me.	Lat 44°34'52", long 69°16'50", at culvert in State Highway 139, 0.2 mile northwest of Thorndike and 0.3 mile upstream from mouth.	5.23	1964-72	3-24-72 5-04-72	a6.55 4.10	--- 108
01049700	Gardiner Pond Brook at Dresden Mills, Me.	Lat 44°06'29", long 69°43'21", 15 ft upstream from culvert in town road from Dresden Mills to Head Tide, 600 ft upstream from mouth and in the northeast section of the village of Dresden Mills.	8.19	1965-72	3-24-72	5.36	176
		ANDROSCOGGIN RIVER BASIN					
[illegible]	Four Ponds Brook near Houghton, Me.	Lat 44°49'55", long 70°42'08", 25 ft upstream from culvert in State Highway 17, 5,000 ft upstream from mouth and 6.0 miles north of Houghton.	3.61	1964-72	5-04-72	4.75	63
[illegible]	Bog Brook near Buckfield, Me.	Lat 44°15'57", long 70°10'58", 15 ft upstream from culvert in State Highway 117, 900 ft upstream from mouth and 3 miles southeast of Buckfield.	10.0	1964-72	5-04-72	6.27	186

a Affected by backwater from ice.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		PRESUMPSCOT RIVER BASIN					
01062700	Patte Brook near Bethel, Me.	Lat 44°20'41", long 70°47'32", 15 ft upstream from culvert in town road between State Highway 5 and West Bethel, 1,800 ft upstream from mouth, and 4.5 miles south of Bethel.	5.35	1965-72	3-17-72 5-04-72	[a]5.82 3.49	--- 108
		JONES CREEK BASIN					
01064200	Mill Brook near Old Orchard Beach, Me.	Lat 43°32'40", long 70°23'31", on abutment of dismantled bridge, 75 ft upstream from culvert in Portland Avenue, 1.7 miles upstream from mouth and 2 miles northwest of Old Orchard Beach.	2.23	1965-72	2-13-72 3-23-72	[a]3.41 3.17	--- 95
		SACO RIVER BASIN					
01066100	Pease Brook near Cornish, Me.	Lat 43°47'19", long 70°45'58", 5 ft upstream from culvert in State Highway 25, 1,200 ft upstream from mouth and 2 miles southeast of Cornish	4.62	1965-72	5-04-72	2.86	88
		LITTLE RIVER BASIN					
01069700	Branch Brook near Kennebunk, Me.	Lat 43°22'44", long 70°34'56", on wingwall of culvert in State Highway 9-A, 2.1 miles west of Kennebunk, and 3.3 miles upstream from mouth.	10.7	1965-72	5-04-72	6.34	723

[a] Affected by backwater from ice.

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1972

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		ST. JOHN RIVER BASIN				
Cross Lake Throughfare	Cross Lake	Lat 47°07'47", long 68°19'06", Aroostook County, at bridge on State Highway 161, at Guerette, Me.	-----	-----	5-10-72	915
Fish River	St. John River	Lat 47°00'52", long 68°35'45", Aroostook County, at bridge on State Highway 11, 2 miles south of Eagle Lake, Me.	-----	-----	5-10-72	5,040
Aroostook River	St. John River	Lat 46°37'57", long 68°25'09", Aroostook County, at bridge on State Highway 11, 0.7 mile west of Ashland, Me.	-----	-----	5-10-72	17,200
Meduxnekeag River	St. John River	Lat 46°08'32", long 67°49'26", Aroostook County, at bridge on Interstate Highway 95, at Houlton, Me.	-----	-----	5-10-72	2,520
		DENNYS RIVER BASIN				
Dennys River	Atlantic Ocean	Lat 45°02'21", long 67°21'28", Washington County, just downstream from Meddybemps Lake dam at Meddybemps, Me.	-----	1971	5-11-72	484
		MACHIAS RIVER BASIN				
East Machias River	Machias River	Lat 45°00'02", long 67°37'07", Washington County, at bridge on State Highway 9, 5.5 miles southwest of Crawford, Me.	-----	-----	4-19-72 4-25-72	517 623
		PENOBSCOT RIVER BASIN				
Molunkus Stream	Mattawamkeag River	Lat 45°53'30", long 68°24'12", Aroostook County, at bridge on Interstate Highway 95, 1.7 miles north of Sherman, Me.	-----	-----	5-09-72	562
Salmon Stream	Penobscot River	Lat 45°38'34", long 68°30'15", Penobscot County, at bridge on Interstate Highway 95, 2.6 miles north of Medway, Me.	-----	-----	4-27-72	487
Mattamiscontis Stream	Penobscot River	Lat 45°21'48", long 68°36'37", Penobscot County, at bridge on Interstate Highway 95, 9 miles north of Howland, Me.	-----	-----	4-26-72	576
West Branch Mattawamkeag River	Mattawamkeag River	Lat 46°01'38", long 68"17'18", Aroostook County, at bridge on Interstate Highway 95, 1.6 miles northwest of Island Falls, Me.	-----	-----	5-07-72	1,780
Mattawamkeag River	Penobscot River	Lat 45°32'51", long 68°11'25", Penobscot County, at bridge on State Highway 170, at Kingman, Me.	-----	-----	4-27-72	8,100
Piscataquis River	Penobscot River	Lat 45°15'57", long 68°41'03", Penobscot County, at bridge on Interstate Highway 95, 2 miles northwest of Howland, Me.	-----	-----	4-26-72	11,100

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		KENNEBEC RIVER BASIN				
West Outlet Stream	Kennebec River	Lat 45°39'06", long 69°44'43", Somerset County, just downstream from West Outlet dam of Moosehead Lake, near Rockwood, Me.	-----	(many)	10-15-71 11-16-71 5-04-72 6-09-72 8-22-72	34.6 39.6 30.9 30.8 25.6
Messalonskee Stream	Kennebec River	Lat 44°34'00", long 68°39'04", Kennebec County, at highway bridge on North Street, at Waterville, Me.	-----	-----	3-30-72	1,320
		ANDROSCOGGIN RIVER BASIN				
Magalloway River	Androscoggin River	Lat 44°51'54", long 71"02'32", Oxford County, at bridge on State Highway 16, and 5 miles south of Wilsons Mills, Me.	-----	-----	5-09-72	2,980
		PRESUMPSCOT RIVER BASIN				
Crooked River	Sebago Lake	Lat 44°12'42", long 70°39'52", Oxford County, at bridge on State Highway 118, 0.8 mile east of East Waterford, Me.	-----	-----	5-01-72	664
		SACO RIVER BASIN				
Saco River	Atlantic Ocean	Lat 43°52'42", long 70°48'15", Oxford County, at bridge on State Highway 5, at Hiram, Me.	-----	-----	5-01-72	6,080

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PART 2. WATER QUALITY RECORDS

NORTH ATLANTIC SLOPE BASINS

ST. CROIX RIVER BASIN

01020000 St. Croix River near Baileyville, Maine

(International gaging station)

LOCATION.--Lat 45°15'55", long 67°28'36", Washington County, in township of Baileyville, at gaging station on right bank 700 ft downstream from powerhouse of Georgia-Pacific Corporation, at Grand Falls, and 8 miles upstream from village of Woodland.

DRAINAGE AREA.--1,320 sq mi.

PERIOD OF RECORD.--Chemical analyses: April to September 1972

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED SILCA (SIO2)	TOTAL MANGA-NESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)
APR. 27...	5,180	2.0	3.4	40	3.8	.7	1.7	.2	8	0	6.2	2.5	.0
MAY 18...	4,940	11.0	2.2	0	2.9	.6	1.4	.2	6	0	6.4	1.8	.0
JUNE 8...	2,220	18.5	1.9	30	3.4	.6	3.4	.2	9	0	5.5	1.7	.1
JULY 27...	1,580	21.0	1.3	40	4.0	.6	1.3	.2	9	0	6.5	1.5	.0
SEPT. 28...	1,410	15.0	1.5	40	3.5	.6	2.0	.3	11	0	4.0	1.2	.0

DATE	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	TOTAL IRON (FE) (UG/L)	HARD-NESS (CA,MG)	NON-CAR-BONATE HARD-NESS	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN	BIO-OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)
APR. 27...	.2	.05	.01	.00	200	12	6	37	6.1	11.2	1.4	16	6
MAY 18...	.0	.00	.02	.01	190	10	5	29	6.2	9.0	-	-	-
JUNE 8...	.1	.02	.02	.01	210	11	4	31	6.4	7.8	1.0	24	3
JULY 27...	.4	.09	.04	.01	170	12	5	21	6.7	7.5	-	32	13
SEPT. 28...	.0	.00	.02	.01	270	11	2	36	6.6	9.0	-	200	5

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	ALKA-LINITY AS CACO3
APR. 27...	0	30	1	10	0.6	0	-	7
MAY 18...	0	40	0	13	<.5	0	4	5
JUNE 8...	0	40	0	6	<.5	0	4	7
JULY 27...	0	60	0	15	<.5	0	0	7
SEPT. 28...	0	50	0	0	<.5	0	0	9

01020000 St. Croix River near Baileyville, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS					SUSPENDED SOLIDS		
DATE	URANIUM (UG/L)	RADIUM (PC/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
APR. 27...	.06	.03	<4	5.2	31	<4	<.4	2

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	LIN-DANE	CHLOR-DANE	PCB	2,4-D	2,4 5-T	SILVEX
APR. 27...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00
MAY 28...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00
JUNE 22...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00
JULY 27...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00
SEPT. 28...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00

DATE	DIAZ-INON	ETHION	MALA-THION	METHYL PARA-THION	METHYL TRI-THION	PARA-THION	TRI-THION
APR. 27...	.00	.00	.00	.00	.00	.00	.00
MAY 18...	.00	.00	.00	.00	.00	.00	.00
JUNE 22...	.00	.00	.00	.00	.00	.00	.00
JULY 27...	.00	.00	.00	.00	.00	.00	.00
SEPT. 28...	.00	.00	.00	.00	.00	.00	.00

01021000 St. Croix River at Baring, Maine

LOCATION.--Lat 45°08'12", long 67°19'05", Washington County, temperature recorder at gaging station on right bank at site of destroyed international highway bridge at Baring.

DRAINAGE AREA.--1,370 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1972

EXTREMES, 1971-72.--Water temperatures: Maximum, 26.0°C July 18, 20; minimum, freezing point on many days during December through April.

EXTREMES, 1959-72.--Water temperatures: Maximum, 30.5°C July 28, 1963; minimum, freezing point on many days during winter months.

REMARKS.--Recorder inoperative Nov. 15-18, 21-24. Discharge records unpublished.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	14.5	13.0	11.0	0.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0
2	18.0	15.0	11.5	11.0	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0
3	16.0	14.0	12.0	11.0	1.0	1.0	0.0	0.0	0.5	0.5	0.0	0.0
4	15.0	14.0	12.0	11.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0
5	16.0	14.5	11.0	10.5	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0
6	15.5	15.0	10.5	9.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
7	16.0	14.5	11.0	10.0	1.0	1.0	0.0	0.0	0.0	0.0	0.5	0.0
8	15.5	14.0	10.0	8.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0
9	14.5	13.0	8.0	6.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
10	14.5	14.5	7.0	6.0	1.5	1.0	0.5	0.0	0.5	0.0	0.5	0.0
11	15.0	14.5	7.0	6.5	2.0	1.0	0.0	0.0	0.5	0.0	1.0	0.0
12	14.5	14.0	7.0	6.0	1.5	1.0	0.5	0.0	1.0	0.0	0.5	0.5
13	14.5	13.0	6.0	5.5	1.5	1.0	0.5	0.0	1.0	1.0	1.5	0.5
14	14.0	13.5	5.5	5.0	1.0	1.0	0.5	0.0	1.0	0.5	1.5	0.0
15	14.5	13.5	---	---	1.0	0.5	0.5	0.0	1.5	0.5	0.5	0.0
16	15.0	13.5	---	---	1.0	0.5	0.5	0.0	1.5	1.0	1.5	0.5
17	13.5	12.0	---	---	1.0	0.5	0.0	0.0	1.0	0.0	1.0	0.5
18	13.5	11.0	---	---	0.5	0.5	0.5	0.0	1.0	0.5	1.0	0.5
19	13.0	11.5	6.0	3.5	0.5	0.0	1.0	0.5	1.0	0.0	1.0	0.0
20	12.0	10.5	6.5	5.5	0.0	0.0	0.5	0.0	0.5	0.0	1.0	0.0
21	13.5	11.5	---	---	0.0	0.0	0.5	0.0	0.0	0.0	1.0	0.0
22	12.0	11.0	---	---	0.0	0.0	0.5	0.0	0.5	0.0	0.5	0.0
23	13.0	11.5	---	---	0.0	0.0	1.0	0.5	0.0	0.0	1.0	0.0
24	12.0	11.0	---	---	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.5
25	11.0	10.5	1.5	1.0	0.0	0.0	1.0	0.5	0.0	0.0	0.5	0.5
26	12.0	11.0	2.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	1.0	0.5
27	13.0	11.5	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
28	13.5	12.0	1.5	1.5	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
29	14.0	12.0	1.5	1.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
30	13.0	11.0	1.5	0.5	0.0	0.0	0.5	0.0	---	---	1.0	0.5
31	12.0	10.5	---	---	0.0	0.0	0.5	0.0	---	---	0.5	0.5

ST. CROIX RIVER BASIN

01021000 St. Croix River at Baring, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	0.0	5.0	3.0	20.0	19.5	20.5	20.0	24.0	21.5	24.5	21.5
2	1.0	0.0	4.0	4.0	19.5	19.0	22.0	20.0	24.0	21.5	23.5	21.5
3	0.5	0.5	4.0	3.5	19.5	18.5	22.0	20.5	23.0	21.5	23.0	21.5
4	0.5	0.5	4.0	4.0	19.0	18.5	22.0	20.0	23.5	21.5	21.5	19.0
5	0.5	0.5	4.0	4.0	19.0	18.0	21.5	19.0	23.5	20.5	20.0	18.5
6	0.5	0.5	4.5	4.0	19.5	18.0	23.0	20.0	23.5	21.0	20.5	19.0
7	0.5	0.0	5.5	4.5	18.0	18.0	22.0	20.0	21.5	21.5	20.0	18.5
8	1.0	0.0	6.0	5.5	19.5	18.0	23.0	20.5	23.5	21.5	19.5	18.5
9	1.5	1.0	6.5	6.0	18.0	17.0	23.5	20.5	23.5	21.5	19.0	18.5
10	3.0	1.0	7.0	6.5	17.0	15.5	24.0	21.0	23.0	21.0	18.5	16.5
11	3.0	1.0	8.0	6.5	16.0	15.0	23.5	21.0	23.0	21.0	18.0	16.0
12	2.0	1.5	8.0	7.0	16.0	15.0	24.5	22.0	23.0	21.0	18.0	16.5
13	2.0	1.5	9.0	7.0	16.5	15.5	25.0	23.0	23.0	21.0	18.0	16.0
14	1.5	1.5	10.5	8.5	17.0	15.5	24.5	23.0	22.0	21.0	17.0	16.5
15	2.0	1.5	9.5	9.5	18.5	16.5	25.0	23.0	22.0	20.5	18.5	16.0
16	2.0	1.5	10.0	9.5	18.0	17.0	25.0	23.5	22.0	20.5	18.0	16.0
17	2.0	1.5	11.0	10.0	19.0	18.0	24.5	23.5	22.0	21.0	18.0	16.0
18	3.0	2.0	12.0	11.0	20.5	18.5	26.0	24.0	21.0	20.5	18.5	16.5
19	2.0	2.0	13.5	11.5	20.0	19.0	24.0	23.5	23.0	20.5	17.0	16.0
20	2.0	2.0	13.5	12.0	20.0	19.0	26.0	23.5	23.0	20.5	18.0	16.0
21	2.0	2.0	14.5	13.0	21.5	19.5	24.0	23.0	23.5	20.5	18.0	15.5
22	3.0	2.0	16.0	14.0	20.0	19.5	25.5	22.0	24.0	21.0	17.0	16.0
23	2.0	2.0	17.0	15.0	20.5	19.5	25.5	22.0	23.5	21.5	16.5	15.0
24	3.0	2.0	18.0	16.0	20.0	19.5	25.5	22.0	24.0	22.0	16.0	15.0
25	3.5	2.0	18.0	15.5	19.5	19.5	24.0	23.0	24.5	23.0	16.0	15.5
26	3.0	2.0	18.5	15.5	19.5	19.0	23.0	22.0	25.0	23.0	16.5	15.5
27	3.0	3.0	19.0	16.0	20.0	19.0	22.0	21.5	24.5	23.0	16.0	15.5
28	3.0	3.0	19.5	17.0	20.0	19.0	24.0	21.0	24.0	23.0	15.5	14.5
29	3.5	3.0	20.5	17.0	20.5	19.0	23.0	21.5	24.5	23.0	15.0	14.5
30	3.0	3.0	20.5	17.0	21.0	19.5	23.5	21.0	24.5	22.0	15.0	14.5
31	---	---	20.5	18.5	---	---	24.0	21.5	24.5	21.5	---	---

01021050 St. Croix River at Milltown, Maine

LOCATION.--Lat 45°10'11", long 67°17'05", Washington County, at international highway bridge at Milltown.

DRAINAGE AREA.--1,460 sq mi.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL KJELDAHL NITROGEN (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	METHYLENE BLUE ACTIVE SUBSTANCE (MBAS)	TURBIDITY (JTU)	CHLOROPHYLL A (UG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN
OCT. 28...	950	12.0	.0	.00	.44	.15	.05	.03	2	.6	113	6.6	5.9
NOV. 30...	910	.5	.0	.00	.24	.06	.02	.04	4	1.1	62	6.8	11.6
DEC. 29...	1,050	.0	.2	.05	.48	.25	.08	.13	5	1.0	117	6.8	11.0
JAN. 26...	1,490	.0	.0	.01	.38	.16	.05	.06	7	3.6	111	6.6	11.2
FEB. 24...	1,030	.0	.9	.20	.28	.07	.02	.04	4	2.7	90	7.0	10.4
MAR. 30...	2,840	2.0	.8	.20	.80	.08	.03	.04	3	2.9	83	6.3	10.6
APR. 27...	4,140	3.0	.0	.00	.58	.08	.02	.04	3	3.6	70	6.5	12.0
MAY 31...	2,620	19.0	.0	.00	.86	.10	.03	.06	6	.8	50	6.5	6.8
JUNE 22...	2,850	19.5	.2	.04	1.00	.08	.03	.06	2	3.3	62	6.8	6.2
JULY 27...	1,560	22.0	.0	.00	.82	.17	.05	.06	6	1.9	90	6.6	4.4
AUG. 24...	2,430	22.0	.0	.00	-	.09	.03	.05	-	-	66	6.6	5.8
SEPT. 14...	2,220	17.5	.2	.05	.47	.15	.05	.06	4	4.1	66	6.5	6.4

DATE	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	CHEMICAL OXYGEN DEMAND	BIOOXYGEN DEMAND	DISSOLVED ARSENIC (AS) (UG/L)	CYANIDE (CN)	DISSOLVED COBALT (CO) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA)	NITRITE (NO2)	AMMONIA (NH4)
OCT. 28...	21,000	220	55										
NOV. 30...	1,900	370	22										
DEC. 29...	2,800	280	122										
JAN. 26...	1,200	250	46										
FEB. 24...	8,400	3,700	30										
MAR. 30...	400	36	19										
APR. 27...	380	20	13										
MAY 31...	450	13	42										
JUNE 22...	2,300	900	36										
JULY 27...	20,000	650	44										
AUG. 24...	2,500	-	-										
SEPT. 14...	8,000	80	32	3.5	.0	.0	.0	<.5	60	210	5.8	.01	.06

DATE	BICARBONATE (HCO3)	CARBONATE (CO3)	OILS AND GREASES	PHENOLS (UG/L)
SEPT. 14...	16	.0	.0	640

01021050 St. Croix River at Milltown, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS			SUSPENDED SEDIMENT		
DATE	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
SEPT. 14...	1.1	3.0	50	<.4	.7	4

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALDRIN	DDD	DDE	DDT	DIELDRIN	ENDRIN	HEPTACHLOR	LINDANE	CHLORDANE	PCB	2,4-D	2,4 5-T	SILVEX
SEPT. 14...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00

DATE	DIAZINON	ETHION	MALATHION	METHYL PARATHION	METHYL TRITHION	PARATHION	TRITHION
SEPT. 14...	.00	.00	.00	.00	.00	.00	.00

01021200 Dennys River at Dennysville, Maine

LOCATION.--Lat 44°54'03", long 67°14'56", Washington County, temperature recorder at gaging station on right bank just upstream from railroad bridge, 0.9 mile upstream from Cathance Stream, and 1 mile west of Dennysville.

DRAINAGE AREA.--92.4 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1958 to September 1972

EXTREMES, 1971-72.--Water temperatures: Maximum, 26.0°C July 14; minimum, freezing point on many days during January to April.

EXTREMES, 1958-72.--Water temperatures: Maximum, 27.5°C July 29, 1959, July 29, 30, 1970; minimum, freezing point on many days during winter months.

REMARKS.--Recorder inoperative April 18 to May 11.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.5	9.5	9.0	1.0	0.5	3.5	3.0	0.5	0.0	0.0	0.0
2	15.0	14.0	9.5	9.0	1.5	1.0	3.0	1.5	0.5	0.0	0.5	0.0
3	15.0	13.5	9.5	9.0	1.5	1.0	1.5	1.0	0.5	0.0	0.5	0.5
4	13.5	13.0	9.5	9.5	1.5	1.0	1.5	1.0	0.0	0.0	1.0	0.5
5	13.5	13.0	9.5	8.0	1.5	1.5	2.0	1.5	0.0	0.0	0.5	0.5
6	14.0	13.5	8.0	6.5	2.0	1.0	3.0	2.0	0.0	0.0	0.5	0.5
7	13.5	13.0	8.0	7.0	1.0	0.5	3.5	1.5	0.0	0.0	1.0	0.0
8	13.5	12.0	8.0	5.5	3.5	1.0	1.5	1.5	0.5	0.0	0.0	0.0
9	12.0	11.5	5.5	4.0	3.5	3.0	2.0	1.0	0.5	0.0	0.5	0.0
10	12.0	11.5	4.5	4.0	3.0	2.0	1.0	0.0	0.5	0.0	1.0	0.5
11	13.0	12.0	4.0	4.0	3.0	2.0	0.5	0.5	0.0	0.0	1.0	0.5
12	12.0	11.5	4.0	4.0	2.0	1.5	0.5	0.0	0.5	0.0	0.5	0.0
13	11.5	11.0	4.0	4.0	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
14	11.0	10.0	3.5	3.5	3.0	1.5	0.5	0.0	0.0	0.0	0.5	0.0
15	11.0	10.5	3.5	3.5	3.0	2.0	1.0	0.5	0.0	0.0	0.5	0.0
16	12.0	11.0	3.5	3.0	3.0	2.0	1.5	0.5	0.0	0.0	0.0	0.0
17	11.5	11.0	3.5	3.0	3.0	2.0	1.5	1.5	0.0	0.0	0.0	0.0
18	11.0	9.5	3.0	2.0	3.5	3.0	1.5	0.5	0.0	0.0	0.0	0.0
19	10.5	9.5	3.0	1.5	4.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
20	10.0	8.5	1.5	1.0	4.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
21	9.5	9.0	1.5	1.0	3.0	1.5	1.0	0.0	0.0	0.0	0.5	0.0
22	10.5	9.0	1.5	1.5	3.0	1.5	1.5	0.5	0.0	0.0	0.0	0.0
23	10.5	10.0	2.0	1.5	3.5	3.0	0.5	0.0	1.0	0.0	0.0	0.0
24	10.5	9.5	2.0	2.0	3.5	1.0	0.0	0.0	1.0	0.0	0.0	0.0
25	9.5	9.5	2.0	1.5	2.0	1.0	0.0	0.0	0.5	0.0	0.0	0.0
26	9.5	9.5	2.0	1.0	3.0	2.0	1.0	0.0	0.5	0.5	0.0	0.0
27	10.0	9.5	1.0	1.0	3.0	2.0	1.0	1.0	0.5	0.0	0.0	0.0
28	10.5	10.0	1.0	1.0	3.0	1.5	1.0	0.5	0.0	0.0	0.0	0.0
29	10.5	10.5	1.0	1.0	3.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0
30	10.5	10.0	1.0	1.0	2.0	2.0	0.5	0.0	---	---	0.5	0.0
31	10.0	9.0	---	---	3.0	2.0	0.0	0.0	---	---	0.0	0.0

01021200 Dennys River at Dennysville, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	---	---	16.5	14.5	21.0	19.0	24.0	21.5	21.5	19.5
2	0.0	0.0	---	---	20.0	14.0	20.0	18.5	25.0	22.0	21.0	19.5
3	0.0	0.0	---	---	14.0	13.5	20.0	19.0	23.5	21.5	20.5	19.5
4	0.0	0.0	---	---	14.0	14.0	21.5	19.5	24.5	21.5	20.5	17.0
5	0.0	0.0	---	---	15.0	14.0	20.5	19.5	21.5	20.0	18.0	16.5
6	0.5	0.0	---	---	15.0	14.0	20.5	19.5	22.0	19.5	16.5	16.0
7	0.0	0.0	---	---	15.0	14.5	20.5	20.0	21.5	20.0	18.0	16.0
8	0.5	0.0	---	---	15.5	14.5	22.0	20.5	21.5	20.0	18.0	16.5
9	0.5	0.0	---	---	17.0	14.5	23.0	21.0	22.0	20.5	19.0	16.5
10	0.5	0.0	---	---	18.0	15.0	23.0	21.5	23.5	20.5	18.0	16.0
11	0.5	0.0	---	---	15.5	14.0	23.0	21.5	22.0	20.0	18.0	16.0
12	0.5	0.0	9.5	8.5	14.5	13.5	23.5	21.5	23.0	20.0	18.5	16.5
13	0.5	0.0	9.5	8.5	15.5	14.5	24.0	22.0	22.0	20.0	18.5	16.5
14	0.5	0.5	11.0	9.5	16.5	15.0	26.0	21.5	21.5	20.0	18.0	16.5
15	1.0	0.5	10.5	9.5	18.0	15.5	22.0	21.5	21.0	19.5	18.0	16.5
16	0.5	0.5	10.0	9.0	16.5	16.5	22.0	21.5	21.0	19.5	18.0	16.5
17	0.5	0.0	10.5	9.5	16.5	16.5	21.5	21.5	21.0	19.0	18.0	16.5
18	---	---	11.5	10.0	18.0	16.5	23.0	21.5	20.0	19.0	19.5	17.0
19	---	---	12.0	11.0	18.0	17.0	22.0	21.0	21.5	19.5	18.0	17.0
20	---	---	11.5	11.0	18.0	17.0	21.5	20.5	21.0	19.0	18.0	16.0
21	---	---	11.5	11.0	18.5	16.5	21.0	21.0	21.5	19.5	17.0	16.0
22	---	---	13.5	11.5	21.0	18.0	21.5	20.5	21.5	19.5	17.0	16.0
23	---	---	13.5	12.0	21.0	18.5	24.5	21.5	22.0	20.0	16.5	15.5
24	---	---	14.0	13.0	20.0	15.5	24.0	21.5	22.0	20.0	15.5	15.0
25	---	---	14.0	13.0	18.5	15.5	24.0	21.5	23.0	20.0	15.5	15.0
26	---	---	13.0	12.0	16.0	15.5	24.0	21.5	23.0	20.5	16.5	15.5
27	---	---	13.0	11.5	16.5	16.0	22.0	20.5	22.0	20.5	17.0	16.5
28	---	---	14.0	13.0	17.0	16.5	22.0	20.5	22.0	20.0	16.5	16.0
29	---	---	15.0	13.5	18.5	17.0	22.0	20.5	21.5	20.0	16.0	15.5
30	---	---	15.5	14.0	19.5	18.5	23.5	21.0	22.0	20.0	17.0	15.5
31	---	---	15.5	14.5	---	---	23.5	21.0	21.5	19.5	---	---

01034500 Penobscot River at West Enfield, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°14'12", long 68°38'56", Penobscot County, temperature recorder at gaging station on left bank at downstream side of highway bridge, 1,000 feet downstream from Piscataquis River and 1 mile southwest of West Enfield.

DRAINAGE AREA.--6,670 sq mi (including 249 sq mi drained by Chamberlain Lake through Telos Canal).

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1972.
Water temperatures: July 1966 to September 1972.

EXTREMES, 1971-72.--Water temperatures: Maximum, 25.5°C July 18, 19; minimum, freezing point on many days during November through April.

EXTREMES, 1966-72.--Water temperatures: Maximum, 27.0°C July 29, 30, 1970; minimum, freezing point on many days during winter months.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	BICARBONATE (HCO3)	CARBONATE (CO3)	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)
OCT. 21...	5,930												
NOV. 23...	5,250	3.0	240	70	5.2	1.5	4.0	.7	16	0	14	2.7	.0
DEC. 21...	5,400												
JAN. 27...	5,000												
FEB. 22...	6,300	4.1	200	60	6.0	1.6	4.4	.6	17	0	14	3.0	.0
MAR. 23...	16,000												
APR. 24...	28,100												
MAY 24...	26,400	3.0	230	0	5.2	.9	3.4	.4	15	0	11	1.6	.0
JUNE 20...	10,900												
JULY 24...	9,320												
AUG. 17...	7,550	3.5	280	40	5.0	1.2	2.6	.5	12	0	11	2.5	.0
SEPT. 13...	9,530												

DATE	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	ALKALINITY AS CACO3	HARDNESS (CA,MG)	NONCARBONATE HARDNESS	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN	BIOOXYGEN DEMAND	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 21...								60	6.5	8.0	2.4	780	52
NOV. 23...	.0	.00	.12	.04	13	19	6	70	6.6	10.4	3.0	4,200	120
DEC. 21...								75	6.6	10.0	3.2	2,500	29
JAN. 27...								73	6.3	10.0	4.9	1,400	120
FEB. 22...	.0	.02	.07	.02	14	22	8	75	6.2	10.0	.2	1,800	110
MAR. 23...								65	6.6	12.0	3.1	480	43
APR. 24...								59	6.6	12.2	3.0	2,100	110
MAY 24...	.0	.00	.06	.02	12	17	4	52	6.7	9.2	2.8	2,600	210
JUNE 20...								51	6.6	7.0	2.2	560	42
JULY 24...								53	6.6	5.2	4.5	6,700	2,300
AUG. 17...	.2	.05	.08	.03	10	17	8	51	6.6	6.0	2.0	17,000	1,700
SEPT. 13...								57	6.6	6.6	3.4	46,000	520

01034500 Penobscot River at West Enfield, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.5	11.0	10.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0
2	14.5	14.5	11.0	11.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
3	14.5	14.0	11.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	14.0	13.5	11.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	14.0	.3.5	11.5	10.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
6	14.0	14.0	10.5	9.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.0
7	14.5	14.0	9.0	9.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0
8	14.0	12.0	9.5	7.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0	0.0
9	12.0	11.0	7.0	5.5	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.0
10	11.5	11.0	5.5	5.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0
11	12.0	11.5	5.0	4.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
12	12.0	11.5	4.5	4.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
13	11.5	10.5	4.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	10.5	10.0	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
15	10.5	10.5	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	11.0	10.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	11.5	11.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	11.0	10.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	10.5	10.0	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
20	10.5	10.0	4.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	12.0	10.5	4.5	4.	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
22	12.0	12.0	4.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
23	12.0	11.5	3.5	2.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
24	11.5	11.0	2.0	1.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
25	11.0	10.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	12.0	10.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	12.0	12.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
28	13.0	12.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
29	13.0	13.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
30	13.0	12.0	1.0	0.0	0.0	0.0	0.0	0.0	---	---	0.5	0.0
31	12.0	10.0	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	6.0	5.0	20.5	20.0	21.0	20.5	21.0	20.5	22.0	21.0
2	0.0	0.0	6.0	5.5	20.0	19.0	21.0	20.0	21.0	20.5	22.0	21.0
3	0.0	0.0	5.5	4.5	19.0	18.5	22.0	21.0	21.0	20.5	21.5	20.5
4	0.0	0.0	4.5	4.0	18.5	17.0	21.5	21.0	21.0	20.0	20.5	20.0
5	0.0	0.0	4.0	4.0	18.5	17.0	21.5	20.5	21.0	20.0	20.0	19.5
6	0.5	0.0	4.5	4.0	19.0	18.5	21.0	20.5	21.0	20.0	19.5	18.5
7	0.5	0.5	6.0	4.5	19.0	18.5	21.0	20.5	21.0	20.0	18.5	18.0
8	0.5	0.5	6.5	6.0	19.0	18.5	21.5	20.5	21.0	20.0	18.5	18.5
9	0.5	0.5	7.0	6.5	19.0	18.0	22.0	21.0	21.0	20.5	18.5	18.0
10	0.5	0.5	7.0	6.5	18.0	16.0	22.0	21.5	21.0	20.5	18.0	16.5
11	1.0	0.5	7.0	6.5	16.0	15.0	22.0	21.0	20.5	19.0	17.0	16.0
12	2.0	1.0	8.0	7.0	15.5	15.0	23.0	21.0	20.5	19.5	18.0	16.5
13	3.0	2.0	8.5	7.0	15.5	15.0	23.5	22.0	20.5	20.0	18.0	16.5
14	2.0	2.0	9.5	8.5	16.0	15.0	24.0	23.0	20.5	20.0	17.0	16.5
15	2.0	2.0	10.0	9.5	18.0	16.0	24.0	23.5	20.0	19.0	16.5	16.0
16	3.0	2.0	10.0	0.0	18.0	18.0	24.5	24.0	20.0	19.0	17.0	16.0
17	3.5	3.0	10.0	9.5	20.0	18.0	25.0	24.0	20.5	19.5	18.5	16.5
18	4.0	3.5	10.0	9.5	20.5	19.5	25.5	24.0	20.5	19.5	18.5	18.0
19	4.0	3.5	11.5	10.0	20.5	20.0	25.5	23.0	20.0	18.5	18.5	16.5
20	3.5	3.5	13.0	11.5	20.5	20.0	24.0	22.0	20.5	20.0	16.5	15.0
21	3.5	3.5	14.0	13.0	20.5	20.0	24.0	23.0	20.5	20.0	16.0	15.5
22	3.5	3.0	15.0	14.0	20.5	20.5	23.5	21.5	21.0	20.0	16.0	15.5
23	4.0	3.5	15.5	14.5	21.0	20.5	23.5	22.0	21.5	21.0	17.0	15.0
24	4.0	3.5	16.0	15.5	21.0	21.0	23.5	22.0	21.5	21.0	15.5	15.0
25	4.5	4.0	16.0	15.5	21.0	20.5	23.0	22.0	22.0	21.5	15.5	15.0
26	4.5	4.0	16.0	15.5	20.5	19.5	23.0	21.5	22.0	21.0	16.0	15.5
27	4.0	4.0	16.0	15.5	19.5	19.5	21.5	20.5	22.0	21.5	16.5	16.0
28	4.0	4.0	18.0	16.0	19.5	19.5	20.5	19.0	22.0	21.5	16.0	15.0
29	4.5	4.0	20.0	17.0	20.5	19.5	20.0	19.5	21.5	21.0	15.0	14.0
30	5.0	4.5	20.5	19.0	21.0	20.5	20.5	19.5	21.5	20.5	14.5	14.0
31	---	---	20.5	20.0	---	---	20.5	20.0	21.5	20.5	---	---

01034500 Penobscot River at West Enfield, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

UNITS OF MEASUREMENT: URANIUM, MICROGRAMS PER LITER; RADIUM, AS RADIUM-226, IN PICOCURIES PER LITER; GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS, IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS					SUSPENDED SEDIMENT		
DATE	URANIUM (UG/L)	RADIUM (PC/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
OCT.								
21...	.06	.03	<.5	3.3	54	<.4	.6	6
APR.								
24...	.06	.02	.6	2.2	47	<.4	.6	10

KENNEBEC RIVER BASIN

01046500 Kennebec River at Bingham, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 45°03'06", long 69°53'12", Somerset County, at gaging station on right bank at Bingham, 200 feet downstream from highway bridge, 0.4 mile downstream from Austin Stream, and 1.6 miles downstream from Wyman Dam.

DRAINAGE AREA.--2,720 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1972

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED SILCA (SIO2)	TOTAL MANGA-NESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)
OCT. 21...	4,570	13.0											
NOV. 23...	2,570	6.0	2.8	80	4.0	1.1	1.1	.4	14	0	5.5	.9	.0
DEC. 21...	482	3.0											
JAN. 27...	490	0.0											
FEB. 22...	505	0.0	4.5	0	4.5	1.1	1.4	.4	14	0	6.9	1.3	.0
MAR. 23	7,070	1.0											
APR. 24...	7,410	1.5											
MAY 24...	10,300	7.5	3.9	0	3.2	.8	1.0	.2	8	0	7.4	.9	.0
JUNE 20...	9,690	14.0											
JULY 24...	7,300	20.0											
AUG. 17...	7,100	19.0	3.3	40	4.0	.9	1.1	.3	10	0	6.3	1.1	.0
SEPT. 13...	4,740	18.0											

DATE	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	TOTAL IRON (FE) (UG/L)	HARD-NESS (CA,MG)	NON-CAR-BONATE HARD-NESS	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN	OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)
OCT. 21...								37	6.6	7.9	.4	10	3
NOV. 23...	.4	.10	.03	.01	210	15	3	40	6.7	10.5	.1	5	5
DEC. 21...								68	6.8	11.0	.6	4	3
JAN. 27								55	6.9	13.0	.9	2	1
FEB. 22...	.9	.20	.02	.01	250	16	4	50	6.7	12.4	3.8	3	1
MAR. 23...								48	6.6	11.8	1.3	1	0
APR. 24...								50	6.5	12.2	.9	3	1
MAY 24...	.2	.06	.03	.01	210	11	5	33	6.5	9.8	.7	5	1
JUNE 20...								35	6.6	9.0	1.3	8	6
JULY 24...								35	6.8	7.7	.7	11	9
AUG. 17...	.9	.20	.02	.00	190	14	5	34	6.6	7.3	.9	15	2
SEPT. 13...								37	6.7	8.0	.2	37	4

01054200 Wild River at Gilead, Maine

(Hydrologic bench-mark station)

LOCATION.--Lat 44°23'25", long 70°58'53", Oxford County, temperature recorder at gaging station on left bank at upstream side of highway bridge on U.S. Route 2, 1,800 feet upstream from mouth, and 0.4 mile west of Gilead.

DRAINAGE AREA.--69.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1967 to September 1972.
Water temperatures: July 1964 to September 1972

EXTREMES, 1971-72.--Water temperatures: Maximum, 25.0°C July 18; minimum, freezing point on many days during December to April.

EXTREMES, 1964-72.--Water temperatures: Maximum, 29.0°C one day in August 1965; minimum, freezing point on many days during winter months.

REMARKS.--Temperature recorder inoperative October 21-26, December 5-16.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	BICARBONATE (HCO3)	CARBONATE (CO3)	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)
OCT. 26...	130												
NOV. 29...	60	6.9	130	0	2.0	.6	1.2	.4	6	0	4.3	.2	.1
DEC. 28...	36												
JAN. 31...	30	7.7	50	0	2.0	.6	1.3	.4	6	0	5.0	.9	.1
FEB. 23...	40												
MAR. 29...	150	6.1	210	0	1.5	.6	1.0	.4	6	0	5.0	.5	.1
APR. 28A..	287												
MAY 30...	137	4.3	80	0	1.2	.4	.9	.3	4	0	4.8	.5	.1
JUNE 21...	65												
JULY 31...	58	6.2	100	0	1.4	.5	1.1	.3	5	0	5.0	.5	.1
AUG. 22...	31												
SEPT. 26...	16	7.4	90	0	1.8	.5	1.5	.3	8	0	3.5	1.1	.1

DATE	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	ALKALINITY AS CACO3	HARDNESS (CA,MG)	NONCARBONATE HARDNESS	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN	BIOOXYGEN DEMAND	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)
OCT. 26...										8.8			
NOV. 29...	.0	.00	.00	.00	5	7	3	25	6.2	13.4	.6	2	0
DEC. 28...										14.0			
JAN. 31...	.1	.03	.02	.00	5	7	3	30	6.6	12.8	.1	2	-
FEB. 23...										13.6			
MAR. 29...	.2	.05	.06	.02	5	6	1	26	6.5	13.0	-	4	0
APR. 28A..								24	6.3	12.0			
MAY 30...	.0	.00	.02	.01	3	5	1	22	6.3	9.0	.9	10	1
JUNE 21...										9.2			
JULY 31...	.0	.00	.01	.00	4	6	1	21	6.8	9.3	.8	20	2
AUG. 22...										8.6			
SEPT. 26...	.0	.00	.02	.00	7	7	0	24	7.0	9.4	.4	24	5

NOTE.--Units below in micrograms per liter.
A CHROMIUM 0; LEAD 2; ZINC 0; COBALT 0; BARIUM 0; CADMIUM 0; SELENIUM 1; SILVER 1; COPPER 0; MERCURY <.5.

01054200 Wild River at Gilead, Maine--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	11.5	9.5	7.0	0.5	0.5	1.0	0.5	0.5	0.0	0.5	0.0
2	15.0	10.5	8.5	6.5	0.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0
3	15.0	11.5	8.0	7.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4	13.5	10.0	8.0	6.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5	14.5	10.5	6.0	4.0	---	---	0.5	0.0	0.0	0.0	0.0	0.0
6	14.0	11.0	5.0	3.0	---	---	1.0	0.5	0.0	0.0	0.0	0.0
7	12.0	10.5	5.5	4.0	---	---	1.0	0.5	0.0	0.0	0.5	0.0
8	10.5	6.5	4.0	0.5	---	---	0.5	0.5	0.0	0.0	0.5	0.0
9	8.5	7.0	0.5	0.5	---	---	0.5	0.5	0.0	0.0	0.5	0.0
10	9.0	8.0	0.5	0.5	---	---	0.5	0.0	0.5	0.0	0.5	0.0
11	10.0	9.0	1.0	0.5	---	---	0.5	0.0	0.5	0.0	0.5	0.0
12	10.0	8.5	1.5	0.5	---	---	0.5	0.0	0.5	0.0	0.0	0.0
13	9.0	5.5	2.0	0.5	---	---	0.5	0.0	0.0	0.0	0.0	0.0
14	11.0	8.5	0.5	0.5	---	---	0.5	0.0	0.0	0.0	0.5	0.0
15	12.0	9.5	0.5	0.5	---	---	1.0	0.5	0.0	0.0	0.0	0.0
16	11.5	9.5	0.5	0.5	---	---	1.0	0.5	0.0	0.0	0.0	0.0
17	11.5	9.5	0.5	0.5	0.0	0.0	1.0	1.0	0.5	0.0	0.0	0.0
18	9.5	7.0	0.5	0.5	0.5	0.0	1.0	0.0	0.5	0.0	0.0	0.0
19	8.5	7.0	1.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.0
20	10.0	8.0	3.0	1.5	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5
21	---	---	1.5	0.5	0.5	0.0	0.5	0.5	0.5	0.0	0.5	0.0
22	---	---	1.0	0.5	0.5	0.0	1.0	0.5	0.0	0.0	0.0	0.0
23	---	---	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
24	---	---	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
25	---	---	0.5	0.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0
26	---	---	0.5	0.5	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0
27	11.5	10.0	0.5	0.5	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0
28	13.0	10.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	11.5	10.0	0.5	0.5	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0
30	10.0	8.5	0.5	0.5	0.5	0.5	0.5	0.5	---	---	0.0	0.0
31	9.0	7.0	---	---	0.5	0.5	0.0	0.0	---	---	0.5	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	0.5	6.0	1.5	14.5	12.0	16.5	14.0	21.5	16.5	23.5	17.0
2	4.0	1.0	2.0	1.5	13.0	11.5	18.5	13.5	20.5	17.0	20.0	18.0
3	3.5	1.5	2.0	1.5	14.5	10.0	18.0	14.5	20.0	16.0	19.0	17.0
4	2.0	1.0	2.0	1.5	13.5	11.0	16.0	13.5	20.0	15.5	17.0	16.0
5	5.0	1.0	3.0	1.5	16.5	11.5	14.5	12.0	20.0	14.0	20.5	15.0
6	3.5	0.5	6.5	1.5	15.5	12.0	16.5	11.5	19.5	14.0	19.0	14.0
7	1.5	0.5	6.0	2.0	14.5	11.5	15.0	12.0	18.0	16.0	19.5	13.0
8	2.0	0.5	6.5	2.0	12.0	10.5	18.0	12.0	18.0	15.5	16.5	15.0
9	3.5	0.5	5.0	3.5	14.5	11.0	19.0	13.5	18.0	15.5	16.5	14.5
10	5.5	0.5	6.0	3.0	13.5	10.5	17.0	14.5	15.5	13.5	15.5	13.0
11	4.5	1.0	5.0	3.0	13.0	9.0	18.5	14.0	19.0	11.5	16.5	12.0
12	6.0	1.5	8.0	3.5	12.0	9.0	21.0	14.5	16.0	14.5	18.0	15.0
13	3.0	0.0	9.0	3.5	16.5	10.0	19.5	17.0	20.0	15.0	15.5	13.0
14	2.0	0.0	7.0	4.0	17.0	13.0	19.5	16.5	18.0	15.5	16.0	14.0
15	1.5	1.0	5.5	5.0	20.5	15.0	23.0	17.0	19.0	14.5	17.0	12.0
16	5.5	1.0	5.5	4.5	19.5	16.5	23.0	19.5	18.5	13.5	17.0	12.0
17	5.5	2.0	8.5	5.0	20.0	14.5	24.0	19.5	16.0	14.0	19.0	13.5
18	4.5	1.5	9.0	5.5	18.5	15.0	25.0	19.0	15.5	14.5	20.0	15.0
19	4.5	1.5	6.5	6.0	19.5	14.0	23.0	18.0	19.5	14.5	18.0	14.0
20	3.0	1.5	9.5	6.5	20.0	15.5	21.0	16.5	20.5	14.5	16.0	11.0
21	5.5	1.0	12.0	7.0	19.0	16.5	19.5	17.0	21.0	14.5	15.5	10.5
22	5.0	1.0	13.0	8.0	18.0	13.5	21.0	16.0	23.0	15.5	15.0	12.0
23	3.5	2.0	13.5	8.0	13.5	12.0	22.0	17.0	23.5	18.0	14.5	10.5
24	5.0	2.0	14.5	9.5	12.0	11.5	21.5	18.5	23.5	20.0	11.5	10.0
25	6.0	1.5	13.5	8.5	13.5	11.5	21.0	17.0	24.0	19.5	16.5	11.5
26	5.0	1.0	14.0	8.5	13.0	11.5	19.5	17.0	24.0	19.5	18.0	14.5
27	3.5	1.0	15.5	9.5	15.5	11.5	20.5	16.5	22.0	19.0	17.0	14.5
28	6.0	1.0	17.0	11.5	15.0	12.0	20.5	18.0	20.0	18.5	15.0	11.5
29	6.5	2.0	18.5	12.0	18.5	13.0	20.5	15.5	21.0	16.5	12.0	10.0
30	6.5	1.5	17.0	13.5	16.5	15.0	21.0	15.5	20.5	15.5	13.0	11.0
31	---	---	16.5	14.5	---	---	19.5	15.5	22.0	15.5	---	

01054200 Wild River at Gilead, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

UNITS OF MEASUREMENT: URANIUM, MICROGRAMS PER LITER: RADIUM, AS RADIUM-226, IN PICOCURIES PER LITER; GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS					SUSPENDED SOLIDS		
DATE	URANIUM (UG/L)	RADIUM (PC/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
SEPT. 26...	.02	<.1	.6	1.4	19	<.4	<.4	<1

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

WATER SAMPLE

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	HEPTA-CHLOR EPOXIDE	LIN-DANE	CHLOR-DANE	PARA-THION	METHYL PARA-THION	MALA-THION
SEPT. 26...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	DIAZ-INON	2,4-D	SILVEX	2,4,5-T
SEPT. 26...	.00	.00	.00	.00

BOTTOM DEPOSIT SAMPLE

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	HEPTA-CHLOR EPOXIDE	LIN-DANE	CHLOR-DANE
SEPT. 26...	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<1.0

01054250 Androscoggin River at Gilead, Maine

LOCATION.--Lat 44°23'52", long 70°58'23", Oxford County, 0.4 mile downstream from Wild River, and at highway bridge at Gilead.

DRAINAGE AREA.--1,600 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972.

REMARKS: No data available for winter periods, November to April.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DISCHARGE (CFS)	TEMPERATURE (DEG C)	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL KJELDAHL NITROGEN (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	METHYLENE BLUE ACTIVE SUBSTANCE (MBAS)	TURBIDITY (JTU)	CHLOROPHYLL A (UG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN
OCT. 26...	2,480	12.5	.0	.00	.32	.12	.04	.08	2	.6	64	6.7	8.2
MAY 30...	2,540	17.0	.0	.00	.41	.12	.04	.06	6	3.1	63	6.7	7.4
JUNE 21...	2,440	19.5	.3	.06	.71	.07	.02	.04	2	.9	60	6.7	6.4
JULY 31...	2,560	20.5	.2	.04	.99	.17	.06	.04	4	9.2	63	6.6	5.4
AUG. 22...	2,210	19.0	.9	.20	.79	.10	.03	.04	5	4.2	59	6.8	6.2
SEPT. 26...	2,170	16.5	.0	.01	.52	.11	.04	.05	5	3.6	64	6.6	7.2

DATE	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	CHEMICAL OXYGEN DEMAND	BIOOXYGEN DEMAND	DISSOLVED ARSENIC (AS) (UG/L)	CYANIDE (CN)	DISSOLVED COBALT (CO) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	DISSOLVED MAGNESIUM (MG)
OCT. 26...	16,000	650	32										
MAY 30...	13,000	880	46										
JUNE 21...	6,500	290	4										
JULY 31...	10,000	300	41										
AUG. 22...	11,000	560	36										
SEPT. 26...	16,000	400	34	4.2	12	.0	-	<.5	50	230	6.2	.6	1.3

DATE	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)	DISSOLVED CALCIUM (CA)	NITRITE (NO2)	AMMONIA (NH4)	DISSOLVED SOLIDS RESIDUE AT 180°C	HARDNESS (CA,MG)	NON CARBONATE HARDNESS	BICARBONATE (HCO3)	CARBONATE (CO3)	OILS AND GREASES	PHENOLS (UG/L)
SEPT. 26...	11	6	.1	3.8	.01	.14	62	15	3	14	0	.0	13

01054250 Androscoggin River at Gilead, Maine--Continued

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS			SUSPENDED SOLIDS		
DATE	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
SEPT.						
26...	.6	2.3	47	.6	<.5	8

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	LIN-DANE	CHLOR-DANE	PCB	2,4-D	2,4,5-T	SILVEX
SEPT.													
26...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00

DATE	DIAZ-INON	ETHION	MALA-THION	METHYL PARA-THION	METHYL TRI-THION	PARA-THION	TRI-THION
SEPT.							
26...	.00	.00	.00	.00	.00	.00	.00

01059000 Androscoggin River near Auburn, Maine

(International Hydrological Decade River Station)

LOCATION.--Lat 44°04'20", long 70°12'31", Androscoggin County, at gaging station on right bank 1.5 miles downstream from Little Androscoggin River and 2.1 miles downstream from north bridge between Auburn and Lewiston.

DRAINAGE AREA.--3,257 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1972.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	DIS-SOLVED SILCA (SIO2)	TOTAL MANGA-NESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)
OCT. 20...	4,060	12.5											
NOV. 29...	3,540	1.5	5.5	40	8.5	1.1	16	1.2	24	0	20	17	.1
DEC. 28...	3,240	0.0											
JAN. 31...	3,360	0.5											
FEB. 23...	3,360	0.0	7.0	0	6.4	1.0	10	1.0	20	0	13	11	[illegible]
MAR. 29...	8,000	2.5											
APR. 20...	19,900	4.5											
MAY 25...	11,800	15.5	4.2	0	5.4	.8	6	.7	13	0	11	7	.0
JUNE 21...	5,550	20.0											
JULY 25...	5,080	24.5											
AUG. 16...	4,710	20.5	5.2	70	5.8	1.0	12	.8	22	0	12	21	.0
SEPT. 27...	3,480	18.0											

DATE	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	TOTAL IRON (FE) (UG/L)	HARD-NESS (CA,MG)	NON-CAR-BONATE HARD-NESS	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN	BIO-OXY-GEN DE-MAND	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)
OCT. 20...								111	6.6	7.6	1.5	41,000	3,200
NOV. 29...	.4	.10	.68	.22	400	26	6	116	6.8	11.4	5.2	11,000	7,300
DEC. 28...								120	6.8	10.6	8.0	23,000	1,400
JAN. 31...								118	6.8	11.0	7.7	17,000	1,500
FEB. 23...	.9	.20	.25	.08	290	20	4	112	6.7	12.0	8.2	38,000	4,900
MAR. 29...								108	6.7	12.0	-	12,000	1,300
APR. 20...								106	6.6	13.0	5.2	6,000	900
MAY 25...	1.7	.40	.16	.05	400	17	6	72	6.8	10.1	7.7	13,000	2,700
JUNE 21...								80	6.8	7.8	13.0	41,000	6,500
JULY 25								110	6.7	6.1	5.2	34,000	2,500
AUG. 16	.9	.20	.16	.05	670	19	1	110	6.6	6.4	2.7	28,000	2,300
SEPT. 27...								140	6.6	6.4	-	24,000	7,200

01064150 Presumpscot River at Martin Point bridge, Portland, Maine

LOCATION.--Lat 43°41'27", long 70°14'47", Cumberland County, in tidewater just downstream from highway bridge on U.S. Route 1 at Martin Point, Portland, Maine

DRAINAGE AREA.--615 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME (HR)	TEMPERATURE (DEG C)	DISSOLVED NITRATE (NO3)	DISSOLVED NITRATE (N)	TOTAL KJELDAHL NITROGEN (N)	TOTAL PHOSPHATE (PO4)	TOTAL PHOSPHORUS (P)	METHYLENE BLUE ACTIVE SUBSTANCE (MBAS)	TURBIDITY (JTU)	CHLOROPHYLL A (UG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN
DEC. 7...	1230	7.0	.1	.03	.38	.18	.06	1.10	4	1.2	40,000	8.5	5.0
MAR. 28...	1145	4.5	.0	.00	.64	.14	.04	1.70	5	1.1	41,000	8.5	7.8
JUNE 6...	1045	14.0	.3	.06	.70	.11	.04	.64	8	1.4	27,500	8.5	7.2
SEPT. 12...	1200	15.5	.0	.00	.66	.18	.06	.72	5	-	42,500	8.0	6.0

DATE	TOTAL COLIFORM (COLONIES PER 100 ML)	FECAL COLIFORM (COLONIES PER 100 ML)	CHEMICAL OXYGEN DEMAND	BIOOXYGEN DEMAND	DISSOLVED ARSENIC (AS) (UG/L)	CYANIDE (CN)	DISSOLVED COBALT (CO) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	DISSOLVED MAGNESIUM (MG)
DEC. 7...	310	12	9										
MAR. 28...	700	60	12										
JUNE 6...	8,100	190	23										
SEPT. 12...	21,000	-	30	1.0	5	.01	0	<.5	70	90	8,200	340	1,000

DATE	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)	DISSOLVED CALCIUM (CA)	NITRITE (NO2)	AMMONIA (NH4)	DISSOLVED SOLIDS RESIDUE AT 180°C	HARDNESS (CA,MG)	NON CARBONATE HARDNESS	BICARBONATE (HCO3)	CARBONATE (CO3)	OILS AND GREASES	PHENOLS (UG/L)
SEPT. 12...	2,200	15,000	1.8	350	.01	.09	29,200	5,000	4,900	115	0	.0	20

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS			SUSPENDED SEDIMENT		
DATE	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
SEPT. 12...	500	380	36,000	<.4	.4	7

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALDRIN	DDD	DDE	DDT	DIELDRIN	ENDRIN	HEPTACHLOR	LINDANE	CHLORDANE	PCB	2,4-D	2,4,5-T	SILVEX
SEPT. 12...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00

DATE	DIAZINON	ETHION	MALATHION	METHYL PARATHION	METHYL TRITHION	PARATHION	TRITHION
SEPT. 12...	.00	.00	.00	.00	.00	.00	.00

01064160 Portland Harbor near Fish Point, Maine

LOCATION.--Lat 43°40'00", long 70°13'50", Cumberland County, in channel between Fish Point and Little Diamond Island in harbor at Portland, Maine

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1972

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME (HR)	TEMPER-ATURE (DEG C)	DIS-SOLVED NI-TRATE (NO3)	DIS-SOLVED NI-TRATE (N)	TOTAL KJEL-DAHL NI-TROGEN (N)	TOTAL PHOS-PHATE (PO4)	TOTAL PHOS-PHORUS (P)	METHY-LENE BLUE ACTIVE SUB-STANCE (MBAS)	TUR-BID-ITY (JTU)	CHLORO-PHYLL A (UG/L)	SPE-CIFIC CON-DUCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXY-GEN
DEC. 7...	1045	8.0	.0	.0	.18	.09	.03	1.70	3	4.4	40,000	8.5	6.0
MAR. 28...	1015	4.5	.0	.0	.25	.10	.03	1.70	5	1 1.9	43,000	8.5	9.0
JUNE 6...	1230	11.5	.0	.0	.70	.06	.02	.97	3	1.8	45,000	8.5	8.8
SEPT. 12...	1100	13.5	.0	.0	.26	.14	.05	.84	2	1.3	45,000	8.0	7.2

DATE	TOTAL COLI-FORM (COL-ONIES PER 100 ML)	FECAL COLI-FORM (COL-ONIES PER 100 ML)	CHEM-ICAL OXYGEN DEMAND	BIO-OXY-GEN DE-MAND	DIS-SOLVED ARSENIC (AS) (UG/L)	CYA-NIDE (CN)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	DIS-SOLVED MANGA-NESE (MN) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED SODIUM (NA)	DIS-SOLVED POTAS-SIUM (K)	DIS-SOLVED MAGNE-SIUM (MG)
DEC. 7...	370	9	3										
MAR. 28...	290	29	8										
JUNE 6...	1,700	180	23										
SEPT. 12...	650	-	55	-	4	.01	1	<.5	90	20	9,200	380	11,000

DATE	DIS-SOLVED SULFATE (SO4)	DIS-SOLVED CHLO-RIDE (CL)	DIS-SOLVED FLUO-RIDE (F)	DIS-SOLVED CAL-CIUM (CA)	NIT-RITE (NO2)	AM-MONIA (NH4)	DIS-SOLVED SOLIDS RESIDUE AT 180°C	HARD-NESS (CA,MG)	NON CAR-BONATE HARD-NESS	BICAR-BONATE (HCO3)	CAR-BONATE (CO3)	OILS AND GREASES	PHENOLS (UG/L)
SEPT. 12...	2,400	17,000	1.9	400	.01	.06	33,300	5,500	5,400	131	0	.0	0

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

UNITS OF MEASUREMENT: GROSS ALPHA RADIATION AS MICROGRAMS OF URANIUM EQUIVALENT PER LITER; GROSS BETA RADIATION AS STRONTIUM-90-YTTRIUM-90, IN PICOCURIES PER LITER; SOLIDS IN MILLIGRAMS PER LITER.

	DISSOLVED SOLIDS			SUSPENDED SEDIME		
DATE	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)	GROSS A (UG/L)	GROSS B (PC/L)	SOLIDS (MG/L)
SEPT. 12...	500	430	36,000	<.4	<.4	6

PESTICIDES CONCENTRATION IN MICROGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ALDRIN	DDD	DDE	DDT	DIEL-DRIN	ENDRIN	HEPTA-CHLOR	LIN-DANE	CHLOR-DANE	PCB	2,4-D	2,4,5-T	SILVEX
SEPT. 12...	.00	.00	.00	.00	.00	.00	.00	.00	.0	.0	.00	.00	.00

DATE	DIAZ-INON	ETHION	MALA-THION	METHYL PARA-THION	PARA-THION	TRI-THION
SEPT. 12...	.00	.00	.00	.00	.00	.00

MISCELLANEOUS ANALYSES OF STREAMS IN NORTH ATLANTIC SLOPE BASINS

CHEMICAL ANALYSES OF FIELD-MEASURED SAMPLES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

STATION NUMBER	STATION NAME AND LOCATION	DRAINAGE AREA (SQ MI)	DATE SAMPLED	TIME	DISCH-ARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C)	PH (UNITS)	TEMPER-ATURE (°C)	DISS-OLVED OXYGEN (MG/L)
	ST. JOHN RIVER BASIN								
01010000	St. John River at Ninemile Bridge, Me.	1,290	08-14-72	0845	4,020	40	6.7	12.0	10.5
01010500	St. John River at Dickey, Me.	2,700	09-19-72	0945	1,140	75	6.9	11.0	10.4
01011000	Allagash River near Allagash, Me.	1,250	09-19-72	1030	1,650	57	7.2	12.5	10.2
01013500	Fish River near Fort Kent, Me.	871	09-19-72	1300	2,030	70	7.2	14.0	10.0
01014000	St. John River at Fort Kent, Me.	5,690	09-19-72	1215	5,960	74	7.3	13.5	10.2
01015800	Aroostook River near Masardis, Me.	888	09-19-72	1545	750	58	7.1	13.5	9.7
01016500	Machias River near Ashland, Me.	330	09-19-72	1445	300	60	7.3	12.5	10.0
01017900	Marley Brook near Ludlow, Me.	1.47	09-18-72	1315	0.18	155	7.4	11.5	9.0
	ST. CROIX RIVER BASIN								
01019000	Grand Lake Stream at Grand Lake Stream, Me.	224	08-04-72	1700	546	26	6.8	21.5	8.4
	DENNYS RIVER BASIN								
01021200	Dennys River at Dennysville, Me.	92.4	08-23-72	1415	77	40	7.1	21.5	7.5
	NARRAGUAGUS RIVER BASIN								
01022500	Narraguagus River at Cherryfield, Me.	232	08-23-72	1145	100	33	6.7	21.0	7.7
	UNION RIVER BASIN								
01023000	W. Br. Union River at Amherst, Me.	148	08-04-72	1115	466	33	6.7	20.0	8.8
	PENOBSCOT RIVER BASIN								
01029500	E. Br. Penobscot River at Grindstone, Me.	1,090	09-19-72	1700	1,560	38	6.9	15.0	9.4
01031500	Piscataquis River near Dover-Foxcroft, Me.	297	09-21-72	1115	87	69	6.9	13.5	9.5
01031600	Morrison Brook near Sebec Corners, Me.	4.37	09-21-72	1230	1.6	130	7.7	11.5	10.1
01033500	Pleasant River near Milo, Me.	324	09-21-72	1330	188	32	7.0	16.5	8.6
01036500	Kenduskeag Stream near Kenduskeag, Me.	178	09-21-72	1415	24	165	8.1	15.0	9.2
	SHEEPSCOT RIVER BASIN								
01038000	Sheepscot River at North Whitefield, Me.	148	08-28-72	1445	30	62	7.2	24.5	6.1
	KENNEBEC RIVER BASIN								
01042500	Kennebec River at The Forks, Me.	1,589	09-20-72	1215	7,180	34	6.8	16.0	9.2
01045000	Dead River at The Forks, Me.	872	09-20-72	1300	725	36	7.1	15.5	9.8
01047000	Carrabassett River near North Anson, Me.	354	09-15-72	1415	179	50	7.0	15.0	9.5
01048000	Sandy River near Mercer, Me.	514	09-15-72	1245	287	68	7.2	14.5	10.3
01049300	No. Br. Tanning Brook near Manchester, Me.	0.93	08-28-72	1200	0.20	87	7.0	21.0	6.8
	ANDROSCOGGIN RIVER BASIN								
01054300	Ellis River at South Andover, Me.	131	10-26-71	1130	95	42	6.6	9.0	9.2
			08-02-72	1300	69	38	6.8	17.5	7.8
01055000	Swift River near Roxbury, Me.	95.8	10-26-71	1030	298	34	6.7	8.5	11.0
			08-02-72	1145	75	31	7.0	17.0	8.7
01055500	Nezinscot River at Turner Center, Me.	171	08-02-72	1600	133	48	6.8	21.0	7.9
01057000	Little Androscoggin River near South Paris, Me.	76.2	08-02-72	1415	49	42	6.8	20.0	9.3
	ROYAL RIVER BASIN								
01060000	Royal River at Yarmouth, Me.	142	08-01-72	1130	55	100	7.4	21.0	8.7
	SACO RIVER BASIN								
01066000	Saco River at Cornish, Me.	1,298	08-01-72	1430	1,690	38	7.0	23.0	7.8
01066500	Little Ossipee River near South Limington, Me.	161	08-01-72	1300	199	42	3.8	23.5	6.7

Note.--All samples taken at stream gaging stations. See Part 1 for complete description of location including latitude and longitude.

CHEMICAL ANALYSES IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

WELL NUMBER	DATE	LOCAL NUMBER	TOWN	DEPTH OF WELL (FT)	WATER-BEARING MATERIAL A/	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED SILICA (SIO2)	DISSOLVED CALCIUM (CA)
464619N0682804.01	05-15-72	AR 1	PORTAGE	8	8T	60	6.9	5.0	4.3	9.4
444219N0695458.01	05-12-72	SM 1	MERCER	14	3S	141	6.9	4.5	5.2	19
443624N0675535.01	11-11-71	W 137	CHERRYFIELD	463	MI	223	8.2	9.5	11	10
444718N0672404.01	05-17-72	W 230	EAST MACHIAS	65	R	84	7.0		14	8.0
445050N0671013.01	05-16-72	W 229	EDMUNDS	6	R	142	7.4	6.5	10	20
445055N0670930.01	05-16-72	W 228	EDMUNDS	200	MI	426	7.8	9.0	14	59
443624N0675535.01	11-10-71	W 107	HARRINGTON	5	R	140	7.4	8.0	8.7	20
444015N0673928.01	11-10-71	W 20	JONESBORO	10	R	40	6.7	6.5	13	3.0
444030N0673627.01	11-10-71	W 14	JONESBORO	131	R	95	7.1	9.0	14	8.0
443632N0673359.01	11-10-71	W 22	JONESPORT	150	MI	149	7.4	10.0	18	2.2
445001N0670014.01	05-16-72	W 217	LUBEC	43	R	298	8.0	6.5	8.6	47
444127N0672857.02	05-17-72	W 216A	MACHIAS	42	R	106	7.4	6.5	15	9.1
444240N0672839.01	05-17-72	W 1	MACHIAS	54	MI	203	6.5	6.5	12	24
442937N0675430.01	11-09-71	W 106	STEUBEN	15	R	121	6.8		9.6	10
434822N0704825.01	05-12-72	Y 1	CORNISH	24	R	189	7.2	6.5	5.2	23

WELL NUMBER	DATE	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA)	DISSOLVED POTASSIUM (K)	BICARBONATE (HCO3)	CARBONATE (CO3)	DISSOLVED SULFATE (SO4)	DISSOLVED CHLORIDE (CL)	DISSOLVED FLUORIDE (F)	DISSOLVED NITRATE (NO3)	TOTAL IRON (FE) (UG/L)
464619N0682804.01	05-15-72	2.2	0.9	0.2	31	0	9.0	0.1	0.0	0.00	170
444219N0695458.01	05-12-72	3.7	4.4	3.3	74	0	8.9	1.9	.1	3.54	900
443624N0675535.01	11-11-71	1.3	38	.6	80	0	17	18	.6	.00	10
444718N0672404.01	05-17-72	2.1	4.5	.8	30	0	4.0	7.0	.1	1.77	200
445050N0671013.01	05-16-72	2.0	4.8	.5	61	0	6.1	6.5	.1	2.21	80
445055N0670930.01	05-16-72	7.5	10	.8	115	0	4.4	69	.1	.18	70
443624N0675535.01	11-10-71	1.2	6.7	2.0	70	0	5.1	4.5	.1	1.77	30
444015N0673928.01	11-10-71	1.0	3.0	.6	16	0	2.4	2.5	.1	.00	40
444030N0673627.01	11-10-71	2.3	5.9	1.2	32	0	10	3.6	.1	2.21	40
443632N0673359.01	11-10-71	2.7	26	4.2	66	0	15	6.3	.4	.00	1500
445001N0670014.01	05-16-72	4.8	8.2	1.1	126	0	29	11	.1	2.21	270
444127N0672857.02	05-17-72	2.1	7.1	1.1	30	0	6.0	9.5B/	1.4B/	.88	30
444240N0672839.01	05-17-72	2.9	7.8	5.0	67	0	8.6	15	.1	10.61	1400
442937N0675430.01	11-09-71	2.6	7.7	1.5	24	0	2.5	8.9	.0	24.31	40
434822N0704825.01	05-12-72	2.0	9.2	3.9	71	0	6.3	14	.0	5.75	40

WELL NUMBER	DATE	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED SOLIDS (SUM)	TOTAL HARDNESS (CA,MG)	NONCARBONATE HARDNESS	DISSOLVED NITRATE (N)
464619N0682804.01	05-15-72	0	41	33	7	0.00
444219N0695458.01	05-12-72	420	86	63	2	.80
443624N0675535.01	11-11-71	0	136	30	0	.00
444718N0672404.01	05-17-72	0	57	29	4	.40
445050N0671013.01	05-16-72	0	82	58	8	.50
445055N0670930.01	05-16-72	0	222	178	84	.04
443624N0675535.01	11-10-71	0	84	55	0	.40
444015N0673928.01	11-10-71	0	33	12	0	.00
444030N0673627.01	11-10-71	0	63	29	3	.50
443632N0673359.01	11-10-71	160	107	17	0	.00
445001N0670014.01	05-16-72	60	174	137	34	.50
444127N0672857.02	05-17-72	0	67	31	7	.20
444240N0672839.01	05-17-72	80	119	72	17	2.4
442937N0675430.01	11-09-71	0	79	36	16	5.5
434822N0704825.01	05-12-72	0	104	66	7	1.3

A/ WATER-BEARING MATERIAL: MI, MASSIVE IGNEOUS ROCK (APHANITIC OR GLASSY); R, SAND AND GRAVEL; 3S, MEDIUM-GRAINED SAND; 8T, SANDY TILL.

B/ WATER CHLORINATED AND FLUORIDATED.

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PART 3. GROUND WATER RECORDS

ANDROSCOGGIN COUNTY

440227N0701241.01 (An 1) Ernest L. Libby. Auburn. Dug unused water-table well in marine deposits, diam 4 ft, depth 15 ft, cased with rock to 15 ft. Lsd about 220 ft above msl. MP top of granite well curb at lsd. Highest water level, 3.30 June 16, 1960; lowest, 10.23 Nov. 16, 1965. Records available: 1959-72.

	1971		Feb.	15	4.95	June	16	4.72
Oct.	15	6.66		28	5.52		28	4.47
	28	5.21	Mar.	15	6.25	July	15	4.45
Nov.	15	5.28		28	5.43		28	4.33
	28	5.32	Apr.	15	4.49	Aug.	15	4.52
Dec.	27	4.66		28	4.78		28	5.45
	1972		May	14	4.82	Sept.	15	5.73
Jan.	15	4.81		28	4.75		28	5.27
	28	4.96						

AROOSTOOK COUNTY

464619N0682804.01 (Ar 1) H. L. Stevens. Portage Lake. Driven unused water-table well in sand, diam 1.5 in, depth 8 ft (formerly 11 ft), cased with iron pipe 0-8, screened 8-11. Lsd about 930 ft above msl. MP top of pipe, 2.0 ft above lsd. Highest water level, overflowed Dec. 21, 1957; lowest, 14.0 (estimated) Nov. 30, 1955. Has been dry frequently. Records available: 1942-72.

	1971		Jan.	29	6.22	June	12	3.00
Oct.	13	5.23	Feb.	14	7.18		28	4.37
	29	5.32		28	7.40	July	13	3.76
Nov.	13	5.38	Mar.	13	e7.90		28	5.75
	29	6.10		28	2.80	Aug.	13	6.74
Dec.	14	6.15	Apr.	12	2.70		29	5.41
	29	6.48		27	1.40	Sept.	13	3.19
	1972		May	15	1.78		29	5.40
Jan.	14	6.60		28	3.35			

e Water level estimated, well dry.

460657N0675122.01 (Ar 3) J. Edward Goodin. Houlton. Drilled unused artesian well in bedrock, diam 6 in, depth 90 ft, cased with steel. Lsd about 370 ft above msl. MP hole in top of pump base at lsd. Highest water level, 10.93 Apr. 15, 1960; lowest, 25.91 Oct. 15, 1960. Records available 1958-72.

	1971		Feb.	26	17.93	Aug.	11	14.30
Oct.	28	18.97	Mar.	28	14.95		29	14.90
Dec.	29	18.94	June	30	12.80	Sept.	13	14.13
	1972		July	17	12.80		30	14.93
Jan.	31	e18.80		25	13.77			

e Water level estimated.

CUMBERLAND COUNTY

435453N0700136.01 (C 26) Brunswick and Topsham Water District. Brunswick. Drilled unused artesian well in stratified glacial drift, diam 12 in, depth 101 ft, cased with steel 0-81, screened 81-101 ft. Lsd 139 ft above msl. MP base of water-level recorder at lsd. Highest water level, 29.77 Apr. 8, 1972; lowest, 36.41 Feb. 10, 1966. Records available: 1958-72.

Mean water level for the day, from recorder graph.

	1971			1972		June	10	30.98
Oct.	5	31.29	Jan.	5	e31.88		15	30.98
	10	31.26		8	h31.92		20	30.98
	15	31.23		31	31.85		25	31.03
	20	31.32	Feb.	5	31.89		30	31.03
	25	31.31		10	31.80	July	5	31.11
	31	31.41		15	31.70		25	31.18
Nov.	5	31.48	Mar.	5	31.83		31	31.08
	15	31.53		31	e30.27	Aug.	5	31.09
	20	31.51	Apr.	8	h29.77		10	31.05
	30	e31.65		10	29.93		15	30.97
Dec.	12	h31.59		15	30.20		20	30.94
	15	e31.63		20	30.32	Sept.	10	31.83
	20	e31.69		25	30.52		15	31.86
	25	e31.76		30	30.69		20	31.95
	31	e31.82	May	12	h30.83		25	31.98
							30	31.98

e Water level estimated.
h Instantaneous measurement, made manually.

HANCOCK COUNTY

444950N0682206.01 (H 1) Norman Salisbury. Amherst. Dug unused water-table well in glacial drift, diam 18 in, depth 14 ft, cased with rock to 14 ft. Lsd about 330 ft above msl. MP top of 2x4 timber at lsd. Highest water level, 2.10 May 29, 1961; lowest, 17.8 (estimated) Sept. 30, 1965. Has been dry frequently. Records available: 1943-72.

	1971		Jan.	27	j	June	11	4.90
Oct.	12	13.00	Feb.	11	j		28	5.80
	26	12.30		25	j	July	12	6.40
Nov.	11	12.40	Mar.	11	j		27	8.00
	26	12.40	Apr.	11	5.60	Aug.	12	9.30
Dec.	12	10.80		27	5.10		26	11.60
	27	6.60	May	12	4.60	Sept.	11	8.70
	1972			29	5.30		27	9.40
Jan.	11	6.40						

j Well frozen, water level not estimated.

KENNEBEC COUNTY

441849N0694420.01 (K 52) Walter Panek. Augusta. Dug unused water-table well in glacial till, diam 36 in, depth 22 ft. Lsd about 220 ft above msl. MP top of floor of shelter house at lsd. Highest water level, 3.46 Nov. 30, 1963; lowest, 14.29 Oct. 31, 1963. Records available: 1960-72.

Mean water level for the day, from recorder graph.

	1971		Mar.	5	7.51	June	10	4.20
Oct.	5	8.81		10	7.64		15	4.88
	10	8.90		15	7.87		20	5.33
	31	7.08		20	6.86		25	5.90
Nov.	5	7.08		25	4.67		30	6.32
	10	6.98		31	4.61	July	5	6.34
	15	6.87	Apr.	5	4.25		10	6.94
	20	7.00		10	4.64		15	7.23
	25	7.35		15	4.21		20	7.53
	30	7.40		20	4.30		25	7.74
Dec.	5	6.73		25	4.70		31	6.96
	10	6.40		30	5.02	Aug.	5	6.49
	15	5.66	May	5	4.12		10	6.60
	20	5.57		10	4.85		15	6.91
	25	5.39		15	5.27		20	7.26
	31	5.81		20	5.64		25	7.61
	1972			25	5.90		31	7.97
Jan.	28	h5.34		31	6.21	Sept.	27	h7.59
Feb.	29	h7.14	June	5	4.28			

h Instantaneous measurement, made manually.

442023N0695538.1. (K 88) A. Allen Stackpole. Winthrop. Drilled unused artesian well in bedrock, diam 6 in, depth 298 ft, cased with steel. Lsd about 350 ft above msl. MP top of pipe at lsd. Highest water level, 35.26 Apr. 17, 1972; lowest, 59.86 Oct. 31, 1962. Records available: 1962-72.

	1971			1972		May	23	36.92
Nov.	8	45.07	Apr.	17	35.26	June	27	38.07
			May	1	36.36	July	31	41.87

OXFORD COUNTY

444637N0705523.01 (O 400) Union Water Power Co. Middle Dam, Lower Richardson Lake. Dug domestic water-table well in glacial till, diam 24 in, depth 15 ft, cased with concrete pipe to 15 ft. Lsd about 1,450 ft above msl. MP top of casing, 2.0 ft above lsd. Highest water level, 0.2 May 20, 1945, Apr. 30, 1961, Apr. 16, 1967; lowest, 12.2 Oct. 9, 16, 23, 1966. Records available: 1944-72.

	1971		Jan.	23	8.7	May	28	3.2
Oct.	3	11.0		30	8.4	June	4	4.0
	10	10.8	Feb.	6	8.8		11	4.0
	17	10.8		13	9.2		18	4.9
	24	10.5		20	9.8		25	4.2
	31	10.3		27	9.4	July	2	4.9
Nov.	7	10.4	Mar.	5	9.3		9	5.9
	14	9.2		12	10.0		16	4.3
	21	8.5		19	9.8		23	4.1
	28	8.8		26	9.3		30	4.8
Dec.	5	9.2	Apr.	2	7.0	Aug.	6	5.2
	12	9.2		9	6.8		13	5.5
	19	8.5		16	4.8		20	6.3
	26	8.4		23	1.5		27	7.0
	1972			30	0.5	Sept.	2	7.8
Jan.	2	8.5	May	7	0.8		10	9.5
	9	8.4		14	0.8		17	9.8
	16	8.4		21	2.1		24	9.8

SOMERSET COUNTY

444219N0695458.01 (Sm 1) J. Harrison Farrand. Mercer. Dug unused water-table well in sand, diam 5 ft, cased with rock to 14 ft. Lsd about 270 ft above msl. MP top of horizontal 2x4 timber at NE corner of well cover, 0.4 ft above lsd. Highest water level, 3.75 Apr. 13, 1960; lowest, 14.1 (estimated) Nov. 30, 1952. Records available: 1942-72. Recording gage removed Nov. 25, 1971 and reinstalled May 23, 1972.

	1971		Jan.	26	7.40	June	24	h5.82
Oct.	5	9.78	Feb.	12	7.17	July	24	h5.99
	10	9.77		26	7.00		31	6.07
	15	9.72	Mar.	13	6.96	Aug.	5	6.27
	20	9.78		25	4.54		10	6.69
	25	9.78	Apr.	15	4.26		15	6.87
	31	9.78		25	4.05		20	7.12
Nov.	5	9.71	May	14	4.84		25	7.35
	10	9.46		23	h5.08		31	7.50
	15	9.16		25	5.25	Sept.	5	7.02
	20	8.98		31	5.67		10	6.71
	25	h8.86	June	5	5.00		15	6.65
Dec.	14	8.24		10	5.24		20	6.77
	26	7.85		15	5.32		25	6.95
	1972			20	5.68		30	7.13
Jan.	13	7.65						

Note.--Water levels when recorder was in operation are from recorder graph and are mean for the day except those with the symbol h which are instantaneous measurements.

WASHINGTON COUNTY

444240N0672835.01 (W 1) Julian A. Johnson. Machias. Drilled artesian stock well in bedrock, diam 6 in, depth 54 ft, cased with steel. Lsd about 140 ft above msl. MP top of casing at lsd. Highest water level, 5.29 Apr. 16, 1961; lowest, 13.95 Feb. 2, 1959. Records available: 1958-72.

	1971			1972		May	15	9.30
Oct.	15	11.00	Jan.	15	9.98		31	10.25
	30	11.90		27	10.13	June	15	10.15
Nov.	23	b12.24	Feb.	14	11.42		26	9.77
	29	11.26		28	11.90	July	26	10.98
Dec.	14	9.43	Mar.	14	12.00	Aug.	25	11.92
	31	10.43		29	9.76	Sept.	15	10.38
			Apr.	27	8.12		26	11.02

b Had been pumped recently

WASHINGTON COUNTY (Continued)

444955N0670005.01 (W 2) Lubec Water District. Lubec. Driven unused artesian well in glacial sand and gravel, diam 2.5 in, depth 52 ft, cased with iron pipe 0-42, screened 42-52. Lsd about 50 ft above msl. MP top of casing at lsd. Highest water level, 9.31 June 14, 1960; lowest, 19.89 Nov. 12, 1965. Records available: 1958-72.

	1971		Dec.	29	16.40	June	28	14.80
Oct.	15	15.29		1972		July	29	14.70
	27	15.20	Jan.	29	16.30	Aug.	28	16.50
Nov.	23	16.01	May	3	14.60	Sept.	27	17.20
	26	15.81		27	14.70			

YORK COUNTY

434822N0704825.01 (Y 1) James P. Small. Cornish. Dug unused water-table well in glacial outwash, diam 36 in, depth 24 ft, cased with brick to 24 ft. Lsd about 370 ft above msl. MP mark chiseled on top of concrete well curb at lsd. Highest water level, 7.90 Apr. 16, 1952; lowest, 18.40 Nov. 14, 1948. Records available: 1943-72.

Mean water level for the day, from recorder graph.

	1971		Jan.	31	14.56	June	5	9.69
Oct.	5	14.13	Feb.	5	14.28		10	9.88
	10	14.77		10	14.30		15	9.91
	15	14.18		15	13.68		20	10.44
	20	13.84		20	12.07		25	11.06
	25	14.18		25	12.62		30	10.93
	31	14.64		29	13.00	July	5	11.03
Nov.	5	15.00	Mar.	5	13.11		10	11.16
	10	15.41		10	13.02		15	11.42
	15	15.71		15	13.29		20	11.72
	20	15.97		20	10.25		25	12.03
	25	16.24		25	8.60		31	12.36
	30	16.49		31	8.98	Aug.	5	12.50
Dec.	5	16.66	Apr.	5	8.79		10	12.75
	10	16.75		10	8.95		15	13.32
	15	16.69		15	8.75		20	13.77
	20	15.92		20	8.53		25	14.27
	25	15.34		25	8.96		31	14.78
	31	14.83		30	9.33	Sept.	5	14.65
	1972		May	5	9.60		10	14.05
Jan.	5	14.69		10	9.54		15	14.19
	10	14.88		15	10.03		20	14.65
	15	15.03		20	10.10		25	15.16
	20	14.98		25	10.24		30	15.53
	25	15.01		31	10.71			

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